



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 123875

TO: Anish Gupta
Location: rem/3c153d11
Art Unit: 1654
Monday, June 07, 2004

Case Serial Number: 09507166

From: Edward Hart
Location: Biotech-Chem Library
REM-1A55
Phone: 571-272-2512

edward.hart@uspto.gov

Search Notes

Examiner Gupta,

Here are the results of the search you requested.

Please feel free to contact me if you have any questions.

Edward Hart



STIC SEARCH RESULT FEEDBACK FORM

Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher* or contact:

Mary Hale, Information Branch Supervisor
571-272-2507 Remsen E01 D86

Voluntary Results Feedback Form

➤ I am an examiner in Workgroup: Example: 1610

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention

Comments:

Drop off or send completed forms to STIC/Biotech-Chem Library Remsen Bldg.



Mon Jun 7 09:14:19 2004

us-09-507-166-38.rnpn

Page 1

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 6, 2004, 22:15:00 ; Search time 4191 Seconds
(without alignments)
6598.972 Million cell updates/sec

Title: US-09-507-166-38
Perfect score: 786
Sequence: 1 atcgctccgcagcagaaga.....aagaacagcagctagctaa 786

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 37577330 seqs, 17593059518 residues

Total number of hits satisfying chosen parameters: 75154660

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Pending Patents NA Main:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	786	100.0	786	21	US-09-507-166-38
2	508.2	64.7	780	20	Sequence 38, Appl
3	508.2	64.7	780	50	Sequence 1041, Ap
4	508.2	64.7	780	50	Sequence 1456, Ap
5	508.2	64.7	780	92	Sequence 482, App
6	508.2	64.7	1270	46	Sequence 34295, A
7	508.2	64.7	1283	21	Sequence 55791, A
8	508.2	64.7	1283	24	Sequence 56917, A
9	497.8	63.3	1287	27	Sequence 49515, A
10	497.8	63.3	1287	29	Sequence 116415, A
11	497.8	63.3	1287	31	Sequence 1308, Ap
12	497.8	63.3	1287	33	Sequence 1308, Ap
13	484.4	61.6	1154	26	Sequence 445, App
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22	481	61.2	933	46	Sequence 34274, A
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ALIGNMENTS

RESULT 1

US-09-507-166-38

Sequence 38, Application US/09507166

GENERAL INFORMATION:

APPLICANT: Snaveley, Marshall D.

TITLE OF INVENTION: ENHANCED SOLUBILITY OF RECOMBINANT PROTEINS

FILE REFERENCE: A-496

CURRENT APPLICATION NUMBER: US/09/507.166

CURRENT FILING DATE: 2000-02-18

NUMBER OF SEQ ID NOS: 59

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 38

LENGTH: 786

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Full length

OTHER INFORMATION: synthetic GF-14R Gene

US-09-507-166-38

Query Match	100.0%	Score	786	DB	21	Length	786
Best Local Similarity	100.0%	Pred. No.	5.6e-211	Indels	0	Gaps	0
Matches	786	Conservative	0	Mismatches	0		

RESULT 2

US-09-413-198-1041

Sequence 1041, Application US/09413198

GENERAL INFORMATION:

APPLICANT: ALEXANDROV, Nickolai

APPLICANT: CHEN Xianfeng

APPLICANT: SUBRAMANIAN, Gopalakrishnan

APPLICANT: ZHENG, Liansheng

TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS 10-25

FILE REFERENCE: 2750-565P

CURRENT APPLICATION NUMBER: US/09/413.198

Query	781	AGCTAA	786
Db	781	AGCTAA	786

US-09-507-166-38

Sequence 1041, Application US/09413198

GENERAL INFORMATION:

APPLICANT: ALEXANDROV, Nickolai

APPLICANT: CHEN Xianfeng

APPLICANT: SUBRAMANIAN, Gopalakrishnan

APPLICANT: ZHENG, Liansheng

TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS 10-25

FILE REFERENCE: 2750-565P

CURRENT APPLICATION NUMBER: US/09/413.198

CURRENT FILING DATE: 1999-10-05
NUMBER OF SEQ ID NOS: 2540
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 1041
LENGTH: 780
TYPE: DNA
ORGANISM: Arabidopsis thaliana
FEATURE:
OTHER INFORMATION: any n or xaa = unknown
US-09-413-198-1041

Query Match 64.7%; Score 508.2; DB 20; Length 780;
Best Local Similarity 78.4%; Pred. No. 1.9e-132;
Matches 609; Conservative 0; Mismatches 168; Indels 0; Gaps 0;

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US-10-361-942-1456
Sequence 1456, Application US/10361942
GENERAL INFORMATION:
APPLICANT: Lutiyya, Linda L.

TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
FILE OF INVENTION: Transcription In Plants
FILE REFERENCE: 38-21(15300)K
CURRENT APPLICATION NUMBER: US/10/361,942
CURRENT FILING DATE: 2003-02-10/361,942
PRIOR APPLICATION NUMBER: US 60/356,051
PRIOR FILING DATE: 2002-02-11
NUMBER OF SEQ ID NOS: 2906
SEQ ID NO 1456
LENGTH: 780
TYPE: DNA
ORGANISM: Arabidopsis thaliana
FEATURE:
OTHER INFORMATION: clone ID: AT_F3F9.C1.016.tg
US-10-361-942-1456

Query Match 64.7%; Score 508.2; DB 50; Length 780;
Best Local Similarity 78.4%; Pred. No. 1.9e-132;
Matches 609; Conservative 0; Mismatches 168; Indels 0; Gaps 0;

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RESULT 4		US-60-356-051-482	
; Sequence 482, Application US/60356051			
; GENERAL INFORMATION:			
; APPLICANT: Monsanto Technology LLC			
; APPLICANT: Iutifiya, Linda I			
; TITLE OF INVENTION: NUCLEIC ACIDS AND OTHER MOLECULES ASSOCIATED WITH			
; TITLE OF INVENTION: TRANSCRIPTION IN PLANTS			
; FILE REFERENCE: 38-21 (15300)I			
; CURRENT APPLICATION NUMBER: US/60/356,051			
; CURRENT FILING DATE: 2002-02-11			
; NUMBER OF SEQ ID NOS: 2926			
; SOFTWARE: PatentIn version 3.1			
; SEQ ID NO 482			
; LENGTH: 780			
; TYPE: DNA			
; ORGANISM: Arabidopsis thaliana			
US-60-356-051-482			
Query Match 64.7%; Score 508.2; DB 92; Length 780;			
Best Local Similarity 78.4%; Pred. No. 1.9e-132;			
Matches 609; Conservative 0; Mismatches 168; Indels 0; Gaps 0;			
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DB	181 GCGTCGTGGCGTATCATTTTATCCATCGAGCAGAGAGAGACGCGTGGTAAACGATGAC 240		
QY	241 CACGTTACCGCTATCCGGTAATACCGTTCCAAAATCGAAACGAACTGTCGGTATCTGC 300		
DB	241 CACGTACGGCGATCCGTAATATAGTCTTAGATCGAGACGGAATCTCCGGAATCTGC 300		
QY	301 GACGGTATCTGAAACTGCTGACTCCCGTCTGATCCGGCTGCTGCTTCCGGTGACTCC 360		
DB	301 GACGGAATCTTTAAGTTGCTTAGCTTAGACTCATCCCTGCCGCTCTTCTGTTGATTC 360		
QY	361 AAGTTTCTTACCTGAAATGAAAGGTGACTACACCGGTACCTGCTGAGTTTAAAC 420		
DB	361 AAGGCTTTTACCTTAAGATGAAGGAGATTTATCAGAGTACTTGGCTGAGTTTAAGACT 420		
QY	421 GGTCAAGAACGTAAAGACGCTGTGAAACACACACCTGGCTGCTTTACAAATCCGCTCAGAC 480		
DB	421 GGTCAAGAGAGGAAGACGCCGCCGAACATACACTGCCGCTTACAAATCTGCTCAGAT 480		
QY	481 ATCGGTACGCTGAATCTGGCTCCGACCGACCGGATCCGTCTGGGTCTGGCTCTGAATTC 540		
DB	481 ATTGTAAATCGAGAGCTTGTCTCCAAACACCCCAATTCGTCTTGGTCTTGCATTGACTTC 540		
QY	541 TCCGTTTTCTACTACGAAATCTGAATCTCCCGGACCGTCTTGGCAACCTGGCTAAACAG 600		
DB	541 TCTGTGTTCTATTACGAGATCTCAATTTCTCTGATCGTGCTGTAACTCGCCAAACAG 600		
QY	601 GCTTTTCGACGAGCTATCGCTGAGCTGCACACCCCTGGGTGAAGAAATCTTACAAAGACTCC 660		
DB	601 GCGTTTGATGAGCGAATTCAGAGTTGGAACACTCTTGGTGAAGAGTCATACAAAGACAGT 660		
QY	661 ACCCTGTATGACACTGCTCGGTGACAACTGTACCCCTGTGGACCTCCGACATGAGGAC 720		
DB	661 ACCTTGATCATGACGCTTCTTGGTGAACATCTCACTCTCTGGSACATCTGATATGAGGAT 720		
QY	721 GACGTTGCTGACGAAATCAAAAGAGCTGTGCTCCGAAACCGGACCGAAGAACAGACAG 777		

Db 721 GATGCTCGGATGAGATCAAGGAAGCAGCAGCAGCGCAAAACCGACCGAGAGAAACAGCAG 777

RESULT 5
US-10-155-881-34295
; Sequence 34295, Application US/10155881
; GENERAL INFORMATION:
; APPLICANT: Dotson, Stanton B.
; APPLICANT: Kovalic, David K.
; APPLICANT: Liu, Jingdong
; APPLICANT: Lutfiyya, Linda L.
; APPLICANT: McIninch, James
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; TITLE OF INVENTION: TRANSCRIPTION IN PLANTS
; FILE REFERENCE: 38-21(15300)J
; CURRENT APPLICATION NUMBER: US/10/155,881
; CURRENT FILING DATE: 2002-05-22
; NUMBER OF SEQ ID NOS: 37595
; SEQ ID NO 34295
; LENGTH: 1270
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana columbia
US-10-155-881-34295

Query Match 64.7%; Score 508.2; DB 46; Length 1270;
Best Local Similarity 78.4%; Pred. No. 2.2e-132;
Matches 608; Conservative 0; Mismatches 168; Indels 0; Gaps 0;

Qy	1	ATGCTTCCGGCAGAGAAGAACTCGTTTACATGCTAGCTGAGCTGACAGCGTGAACGT	60
Db	199	ATGCGGTCTGGCGTGAAGAGTTCGTATACATGCTAAGCTCGCGGAGCAAGCGGAGAGG	258
Qy	61	TACGAAGAAATGGTTGAATTCATCGMAAAAGTTTTCCGTCGTGTTGACGGTGACGAACGTG	120
Db	259	TACGAAGAGATGGTAGAGTTTATGGAGAAAGTCTCCGCCCGCTTGATGCGATGAATTC	318
Qy	121	ACCGTTGAAGAACGTAAACCTGCTCCGTTGCTTTACAAAAACGTTATCGGTGCTCGT	180
Db	319	ACCGTAAAGAGCGAAATCTTCTCCGTCGCTTATAAGAATGTGATGGTGTCCGCGT	378
Qy	181	GCYTCTGGCGTATCATCTCTCATCGACAGAAAGAAATCCCGTGGTAAACGACAC	240
Db	379	GCCTCGTGGCGTATCATTTATCGATCGAGCAAGGAAGAGAGCCGGTGGTAAACGATGAC	438
Qy	241	CAGCTTACCCTATCCGTGAATACCGTTCCAAAATCGAAAACCGAACTGCCGGTATCTGC	300
Db	439	CACGTACGCGGATCCGTGAATATAGTCTAAGATCGACGGAATCTCCGGAATCTGC	498
Qy	301	GACGGTATCTGAAACTGCTGGAATCCCGTCTGATCCCGGCTGCTGCTTCGGTGACTCC	360
Db	499	GACGGAATCCCTAAGTTGCTTGACTCTAGACTCATCCCTCGCGCTGCTTCTGGTGATTCC	558
Qy	361	AAAGTTTCTACCTGAAATGAAAGGTGACTACCAACCGTACCTGGCTGAGTTTAAAAACC	420
Db	559	AAGTCTTTTACCTTAAGTAGAGGAGATATACAGTACTTTGGCTGAGTTTAAGACT	618
Qy	421	GGTCAGAAACGTAAAGACGTGCTGGAACACACCTGGCTGCTTACAAATCCGCTCAGAC	480
Db	619	GGTCAAGAGAGAAAGACGCGCGGAACATACACTCGCCGCTTACAAATCTGCTCAGGAT	678
Qy	481	ATCGCTAACCTGAACTGGGTCCGACCCACCCGATCCGTCTGGGTCTGGCTGAACTTC	540
Db	679	ATTGCTAATGCAGAGCTTGCTTCCAAACACACCCAAATTCGTCTTGTTCTTGCAATTG	738
Qy	541	TCCGTTTTTCTACTACGAAATCTGAACTCCCGGACCGTGTCTGCAACTCGCTGTAACAG	600
Db	739	TCTGTGTTCTATTACGAGATCCTCAATTCCTCATCGTGTGCTGTAACCTCGCCAAACAG	798
Qy	601	GCYTTCAGCAAGTATCGTGAGCTCGACACCTCGGTGGAAGTACTCTACAGAGACTCC	660
Db	799	GCCTTTGATCAGGCGATTCAGAGTTGGACATCTCTGGTGAAGAGTCAACAAGACAGT	858
Qy	661	ACCTGTATCATGACGTGCTGCGTGACAAACCTGACCCCTGTGGACCTTCGACATCGAGAC	720

Qy	305	GTATCCGAAACGCTGAGACTCCCGCTCATCCCGAGCTGCTCCCGTAGCTCCAAAG	364
Db	510	GAATCCTTAAGCTCTTGATACTAAGACTGGTTCCTGCTGCTCTTGTGAGATTCGAAG	569
Qy	365	TTTTCTAAGCTGAAATGAAGGTGACTACACCGGTACTGGCTGAGTTTAAACCGATC	424
Db	570	TGTTTTACCTTAAGATGAAGGGAGATTATCAAGGTACTTGGCTGAGTTTAAAGCTGTC	629
Qy	425	AGGATCGTTAAGACGCTGCTGAACACCCCTGGCTTACAAATCCGCTACAGACATCG	484
Db	630	AAGAGAGAAAGATGCTGCTGAACATCTTACCGCTTACAAAGCTGCTAGGATATTG	689
Qy	485	CTAACGCTGAACGTGGCTCCGACCCACCGCATCGCTGGGCTGAGCTTGAACCTCTCG	544
Db	690	CTAATGCTGAATTGGCTCCACGCAATCGAATTGGCTTGGCTTGGCTGAACTTCTCTG	749
Qy	545	TTTTCTACTACGAATTCCTGAATCTCCCGGACCGGTCTTGCAACTGCTTAAACGGCTT	604
Db	750	TGTTTACTATGAGATTCTCAATTCTCCAGATCGGCTTGAATCTGCTTAAGCAGCGGT	809
Qy	605	TCGACGAGCTATCGCTGAGCTCGACACCCCTGGGTGAAGAAATCTCAAAAGACTCCACC	664
Db	810	TTATAGAAAGGATTGCTGAGTTGATACCTCTTGGTGAAGAGCTATACAAAGACAGTACT	869
Qy	665	TGATCATGACGCTGCTGCGCTGACCAACTGACCCCTGTGAGACTCCGACATGACGAGCAG	724
Db	870	TGATCATGCGCTTCTTCGTGACAATCTCACTCTTGGACATCTGATATGACGAGATGATG	929
Qy	725	CTGCTGACGAATCAAGAAGCGTGCCTCGAAACCGACGGAAGAACAGAG	777
Db	930	CTGCGATGATCAACGAAAGCAGACGCGCCAAACCGAACGAGAGAACAGAG	982

```

RESULT 10
US-09-684-016-116415
; Sequence 116415, Application US/09684016
; GENERAL INFORMATION:
;
; APPLICANT: Liu, Jingdong, Kovalic, David K.
;
; TITLE OF INVENTION: Annotated Plant Genes
;
; FILE REFERENCE: 38-21(15097)D
;
; CURRENT APPLICATION NUMBER: US/09/684,016
;
; CURRENT FILING DATE: 2000-10-10
;
; PRIOR APPLICATION NUMBER:
;
; PRIOR FILING DATE:
;
; NUMBER OF SEQ ID NOS: 2000-09-05
;
; SEQ ID NO 116415
;
; LENGTH: 1287
;
; TYPE: DNA
;
; ORGANISM: Arabidopsis thaliana
;
; US-09-684-016-116415

```

Query Match	63.3%;	Score 497.8;	DB 29;	Length 1287;
Best Local Similarity	77.7%;	Pred. No. 1.9e-129;		
Matches 601;	Conservative 0;	Mismatches 172;	Indels 0;	Gaps 0

QY CTTCCGGGAGAGAGAAAGCTGGTTTACATG33CTAGCTGGCTGACAGGCTGAACGTTACG 64

Db CCTCAGCCGAGGAGAGGCTTGTATCATG3CCAACTGCGGACGACAGCGGAGGTTACG 269

210

QY AAGAAATGGTTGAATTCATGAGAAAAAGTTCCGCTGCTGTGACG3TGACCACTGACCG 124

Db AAGAAATGGTTGAATTCATGAGAAAGTGGCGGAGCCGTTGACCAAGACCACTGACCG 329

270

QY TTTAAGAAAGCTAACCTGCTGTCGCCGTTGCTTACAAAACGTTATCG3GTGTCGTGCTT 184

Db TCGAAGAAAGCTATCTCTCTCCGTCGCTTACAAAAGTCATCG3AGCTGTGTCCTT 389

330

QY CCG3GG3GTATCATCTCTCCATCGAACAAGAAAGAAAGATCCCG3GTATAC3GACGACACG 244

Db CGTGGAGAAATCATTTTCATGATCGAACAAGAAAGAAAGTGTG3GTATAC3GATACACG 449

390

QY 245 TTACCCCTATCCGTGATATCCGTTCCAAATTCGAAACCGAATCTCCGATCTGCACAG 304

Db 450 TTACGTGCATCCGTGACTACAGAAGCAAGATCGAAACGGAACTTTCTGAAATCTGTACG 509

QY 305 GTATCTCTGAAATCTGCTGACATCCCGTCTGATTCGGGCTGCTCTTCCGGTGATCTCCAAAG 364

Db 510 GAATCCCTTAAGCTTCTTGATTAATACTGTTCTCGCTGCTGCTTCCGGAATTCGAAG 568

QY 365 TTATCTACCTGAAATGAAAGGTGACTACACCGGTACTCTGCTGAGTTTAAACCGATC 424

Db 570 TGTTTTACCTTAAGATGAAGGAGATTTATATAGTAACTTGGCTGAGTTTAAAGCTGTTC 623

QY 425 AGGAAGCTTAAGACGTGCTGTAAACACACCTTGGCTGCTTACAAATCCGCTCAGGACATCG 484

Db 630 AAGAGGAGAAAGATGTGCTGTAACATATCTTCACCGCTTAAAGAGCTCTCAGGATATTC 689

QY 485 CTAAACCTAAATCTGGCTCCGACCCACCCGATCCGTTGGTCTGGCTGTAATCTTCGCG 544

Db 690 CTATATCTGAATTTGGTCCCAAGCATTCGGAATTCGTTGGCTTGGCTGTAATCTTCTCG 749

QY 545 TTTTCTACTACGAATCTGAACTCTCCCGGACCGTGTCTGCAACTGCTTAAACAGCTT 604

Db 750 TGTTTTACTATAGATTTCTCAATTTCTCCAGATCGTGCTTGAATCTCGCTAAGCAGCGCT 809

QY 605 TCACAGACGTATTCGTGTAGCTCGACACCCCTGGGTGAAGAAATCTTACAAAGATCCGACCC 664

Db 810 TTATATAAAGCATTGTCTAGTTGGATATCTTTGGTGAAGATCATATCAAGACATGTACTT 869

QY 665 TGATCATGCAAGCTGCTGGTGCAACCTGACCTTGTGACCTCCGACATGACGACAG 724

Db 870 TGATCATGCAAGCTTCTTCGTGACAATCTCACTCTCTGGACATCTGAATATGACAGATGATG 929

QY 725 CTGCTACAGAAATCAAAGAAGCTGTGCTCGAAACCGAACGAAATCAGAG 777

Db 930 CTGCGATATGATCAAGAGAACGACGCGCCAAATCCGACCGAAGAAACAGAG 982

```

RESULT 11
US-09-733-089-1308
: Sequence 1308, Application US/09733089
: GENERAL INFORMATION:
: APPLICANT: Dotson, Stanton B.
: APPLICANT: Kovalic, David K.
: APPLICANT: Liu, Jingdong
: APPLICANT: Lutfiyya, Linda L.
: APPLICANT: McIninch, James
: APPLICANT: Wu, Wei
: TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
: TITLE OF INVENTION: Transcription In Plants
: FILE REFERENCE: 38-21(45300)D
: CURRENT APPLICATION NUMBER: US/09/733,089
: CURRENT FILING DATE: 2000-12-11
: PRIOR APPLICATION NUMBER: US 09/474,435
: PRIOR FILING DATE: 1999-12-28
: PRIOR APPLICATION NUMBER: US 09/654,617
: PRIOR FILING DATE: 2000-09-05
: PRIOR APPLICATION NUMBER: US 09/620,392
: PRIOR FILING DATE: 2000-07-19
: NUMBER OF SEQ ID NOS: 2413
: SEQ ID NO 1308
: LENGTH: 1287
: TYPE: DNA
: ORGANISM: Arabidopsis thaliana
US-09-733-089-1308

```

Query Match	63.3%	Score 497.8	DB 31	Length 1287
Best Local Similarity	77.7%	Pred. No. 1.9e-129		
Matches 601	Conservative 0	Mismatches 172	Indels 0	Gaps 0
QY	5	CTTCCGCGCAGAGAACTGCTTTTACATGCTGCTAGCTGCTGAACGCTGAACGTTACG	64	
Qb	210	CCTCGACGAGGAGAGAGTTCTGTATACATGCGCAGCTGCGCGACGACGAGCGGAGCGTTACG	269	

QY 65 AAGAAATGGTGAATTCATGGAAGTTTCGGCTGCTGTTGACGGTGAACGACGACG 124
Db |||||
QY 270 AAGAAATGGTGAATTCATGGAAGTTTCGGGAGCCGTTGACAAAGACGAACTCACCG 329
Db |||||
QY 125 TTGAAGAGCTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 184
Db |||||
QY 330 TCGAAGAGCTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 389
QY 185 CTGCGCTATCATCTCTCCATCGAAGAGAGAGATCCGCTGCTGCTGCTGCTGCTGCTGCT 244
Db |||||
QY 390 CTGCGAGATCATCTCTCCATCGAAGAGAGAGATCCGCTGCTGCTGCTGCTGCTGCTGCT 449
QY 245 TTACCGCTATCGTGAATTCATGGAAGTTTCGGCTGCTGCTGCTGCTGCTGCTGCTGCT 304
Db |||||
QY 450 TTACCGCTATCGTGAATTCATGGAAGTTTCGGCTGCTGCTGCTGCTGCTGCTGCTGCT 509
QY 305 GTATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 364
Db |||||
QY 510 GNACTCTTAAGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 569
QY 365 TTTTCTACTGAAATCTGAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 424
Db |||||
QY 570 TGTCTTACTGAAATCTGAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 629
QY 425 AGGACGTAAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 484
Db |||||
QY 630 AAGAGAGAGAGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 689
QY 485 CTAACGCTGAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 544
Db |||||
QY 690 CTAATGCTGAAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 749
QY 545 TTTTCTACTGAAATCTGAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 604
Db |||||
QY 750 TGTCTTACTGAAATCTGAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 809
QY 810 TTGATGAAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 869
QY 665 TGATCATGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 724
Db |||||
QY 870 TGATCATGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 929
QY 725 CTGCTGAGGAATCAAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 777
Db |||||
QY 930 CTGCGATGAGATCAAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 982

RESULT 12

US-09-816-660-1308
; Sequence 1308, Application US/09816660
; GENERAL INFORMATION:
; APPLICANT: Dotson, Stanton B.
; APPLICANT: Kovalic, David K.
; APPLICANT: Liu, Jingdong
; APPLICANT: Lutfiyya, Linda L.
; APPLICANT: McIninch, James
; APPLICANT: Wu, Wei
; TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
; FILE REFERENCE: Transcription In Plants
; CURRENT APPLICATION NUMBER: US/09/816,660
; CURRENT FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: US 09/474,435
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: US 09/654,617
; PRIOR FILING DATE: 2000-09-05
; PRIOR APPLICATION NUMBER: US 09/733,089
; PRIOR FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER:) US 09/684,016
; PRIOR FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: US 09/620,392

; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 24143
; SEQ ID NO 1308
; LENGTH: 1287
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-816-660-1308

Query Match 53.3%; Score 497.8; DB 33; Length 1287;
Best Local Similarity 77.7%; Pred. No. 1.9e-129;
Matches 601; Conservative 0; Mismatches 172; Indels 0; Gaps 0;

QY 5 CTTCCGCGAGAGAACTGGTTTACATGGCTAGACTGGCTGAAACAGGCTGAACGTTACG 64
Db |||||
QY 210 CCTCAGCGAGGAGAGTTTCGTATATATGCGGAGCTGCCGAGCAAGCGGAGCGTTACG 269
Db |||||
QY 65 AGAAATGTTGAAATTCATGGAAGTTTCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 124
Db |||||
QY 270 AAGAAATGGTTGAAATTCATGGAAGTTTCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 329
QY 125 TTGAAGAGCTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 184
Db |||||
QY 330 TCGAAGAGCTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 389
QY 185 CTGCGCTATCATCTCTCCATCGAAGAGAGAGATCCGCTGCTGCTGCTGCTGCTGCTGCTGCT 244
Db |||||
QY 390 CTGCGAGATCATCTCTCCATCGAAGAGAGAGATCCGCTGCTGCTGCTGCTGCTGCTGCTGCT 449
QY 245 TTACCGCTATCGTGAATTCATGGAAGTTTCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 304
Db |||||
QY 450 TTACCGCTATCGTGAATTCATGGAAGTTTCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 509
QY 305 GTATCTGAACTGCTGGAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 364
Db |||||
QY 510 GAACTCTTAAGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 569
QY 365 TTTTCTACTGAAATGAAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 424
Db |||||
QY 570 TGTCTTACTGAAATGAAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 629
QY 425 AGGACGTAAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 484
Db |||||
QY 630 AAGAGAGAGAGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 689
QY 485 CTAACGCTGAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 544
Db |||||
QY 690 CTAATGCTGAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 749
QY 545 TTTTCTACTGAAATCTGAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 604
Db |||||
QY 750 TGTCTTACTGAAATCTGAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 809
QY 605 TCGAGAGAGCTATCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 664
Db |||||
QY 810 TTGATGAAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 869
QY 665 TGATCATGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 724
Db |||||
QY 870 TGATCATGAGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 929
QY 725 CTGCTGAGGAATCAAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 777
Db |||||
QY 930 CTGCGATGAGATCAAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 982

RESULT 13

US-09-620-394B-445
; Sequence 445, Application US/09620394B
; GENERAL INFORMATION:
; APPLICANT: ALEXANDROV, Nikolai
; APPLICANT: BROVER, Vyacheslav
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Thereby

FILE REFERENCE: 2750-1067P
CURRENT APPLICATION NUMBER: US/09/620,394B
CURRENT FILING DATE: 2000-07-21
NUMBER OF SEQ ID NOS: 9131
SEQ ID NO 445
LENGTH: 1154
TYPE: DNA
ORGANISM: Arabidopsis thaliana
FEATURE:
NAME/KEY: misc.feature
LOCATION: 1..1154
OTHER INFORMATION: any n = a, g, c, t, unknown, or other
NAME/KEY: misc.feature
LOCATION: 1..1154
OTHER INFORMATION: Ceres Seq. ID 1376532
US-09-620-394B-445

Query Match 61.6%; Score 484.4; DB 26; Length 1154;
Best Local Similarity 76.2%; Pred. No. 1.1e-125;
Matches 596; Conservative 0; Mismatches 186; Indels 0; Gaps 0;

QY 5 CTTCGCGAGAGAGAACTGGTTTACATGCTGACTGCTGAACAGGCTGAACGTTACG 64
DB CCTCGCGAGAGAGAGAGTTGCTGTACCTCGCAAGCTCGCAGAGCAAGCGGAACTGTTACG 165
QY 65 AAGAAATGGTGAATTCATGAGAAAGTTTCCGCTGCTGTGAACGCTGAACGTTACG 124
DB 166 AAGAAATGGTGAATTCATGAGAAAGTTTCCGCTGCTGTGAACGCTGAACGCTGAACG 225
QY 125 TTGAAGAACGTAACTGCTGCTGCTGCTTACAAAACGTTATCGGTGCTGCTGCTT 184
DB 226 TCGAAGAACGTAACTGCTGCTGCTGCTTACAAAACGTTATCGGTGCTGCTGCTT 285
QY 185 CCGGCGTATCATCTCTCTCATGACAGAGAAAGATCCCGTGTACGACGACGACG 244
DB 286 CCGGCGTATCATCTCTCTCATGACAGAGAAAGATCCCGTGTACGACGACGACG 345
QY 245 TTACCGCTATCCGCTGATACCGTTCCAAATCGAAACCGAACTGCTGCTATCTCGGACG 304
DB 346 TGACCAAGATCCGCTGATACAGAGAAAGATGAACTGATTAAGAAATCTGACG 405
QY 305 GTATCTGAAACTGCTGACTCCCGTGTATCCCGGCTGCTGCTGCTGCTGCTGCTG 364
DB 406 GTATCTGAAACTGCTGACTCCCGTGTATCCCGGCTGCTGCTGCTGCTGCTGCTG 465
QY 365 TTCTTACCTGAATGAGAAAGTGAACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 424
DB 466 TTCTTACCTGAATGAGAAAGTGAACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 525
QY 425 AGGAACTGAAGAGCTGCTGAAACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 484
DB 526 AAGAGAGAGAAAGTCTGCTGAAACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 585
QY 485 CTAACTGTAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 544
DB 586 CTAACTGTAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 645
QY 545 TTCTTACCTGAATGAGAAAGTGAACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 604
DB 646 TTCTTACCTGAATGAGAAAGTGAACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 705
QY 605 TCGAAGAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 664
DB 706 TCGAAGAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 765
QY 665 TGAATCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 724
DB 766 TGAATCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 825
QY 725 CTGCTGAGAAATCAAGAAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 784
DB 826 GTCCGAGAGAGATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGATCT 885

QY 785 AA 786
DB 886 AA 887
RESULT 14
US-10-155-881-34293
Sequence 34293, Application US/10155881
GENERAL INFORMATION:
APPLICANT: Dotsen, Stanton B.
APPLICANT: Kovalic, David K.
APPLICANT: Liu, Jindong
APPLICANT: Lufiyya, Linda L.
APPLICANT: McIninch, James
TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
FILE REFERENCE: 38-21(15300)J
CURRENT APPLICATION NUMBER: US/10/155,881
CURRENT FILING DATE: 2002-05-22
NUMBER OF SEQ ID NOS: 37595
SEQ ID NO 34293
LENGTH: 1047
TYPE: DNA
ORGANISM: Arabidopsis thaliana columbia
US-10-155-881-34293

Query Match 61.2%; Score 481.2; DB 46; Length 1047;
Best Local Similarity 76.0%; Pred. No. 8.8e-125;
Matches 594; Conservative 0; Mismatches 188; Indels 0; Gaps 0;

QY 5 CTTCGCGAGAGAGAACTGGTTTACATGCTGACTGCTGAACAGGCTGAACGTTACG 64
DB 44 CCGGCGAGAGAGAGAGTTGCTGTACCTCGCAAGCTCGCAGAGCAAGCGGAACTGTTACG 103
QY 65 AAGAAATGGTGAATTCATGAGAAAGTTTCCGCTGCTGTGTTGACGCTGACGAACTGACG 124
DB 104 AAGAAATGGTGAATTCATGAGAAAGTTTCCGCTGCTGTGTTGACGCTGACGAACTGACG 163
QY 125 TTGAAGAACGTAACTGCTGCTGCTGCTTACAAAACGTTATCGGTGCTGCTGCTGCT 184
DB 164 TCGAAGAACGTAACTGCTGCTGCTGCTTACAAAACGTTATCGGTGCTGCTGCTGCT 223
QY 185 CCGGCGTATCATCTCTCTCATGACAGAGAAAGATCCCGTGTACGACGACGACG 244
DB 224 CCGGCGTATCATCTCTCTCATGACAGAGAAAGATGAACTGATTAAGAAATCTGACG 283
QY 245 TTACCGCTATCCGCTGATACCGTTCCAAATCGAAACCGAACTGCTGCTGCTGCTG 304
DB 284 TGACCAAGATCCGCTGATACAGAGAAAGATGAACTGATTAAGAAATCTGACG 343
QY 305 GTATCTGAAACTGCTGACTCCCGTGTATCCCGGCTGCTGCTGCTGCTGCTGCTGCTG 364
DB 344 GTATCTGAAACTGCTGACTCCCGTGTATCCCGGCTGCTGCTGCTGCTGCTGCTGCTG 403
QY 365 TTCTTACCTGAATGAGAAAGTGAACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 424
DB 404 TTCTTACCTGAATGAGAAAGTGAACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 463
QY 425 AGGAACTGAAGAGCTGCTGAAACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 484
DB 464 AAGAGAGAGAAAGTCTGCTGAAACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 523
QY 485 CTAACTGTAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 544
DB 524 CTAACTGTAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 583
QY 545 TTCTTACCTGAATGAGAAAGTGAACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 604
DB 584 TTCTTACCTGAATGAGAAAGTGAACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 643
QY 605 TCGAAGAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 664
DB 644 TTGAAGAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 703

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US-60-312-544-3922
; Sequence 3922, Application US/60312544
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Edgerton, Michael D
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Liu, Jingdong
; APPLICANT: Stein, Joshua
; TITLE OF INVENTION: CDNA SEQUENCES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCES: 38-10(52726)A
; CURRENT APPLICATION NUMBER: US/60/312,544
; CURRENT FILING DATE: 2001-08-15
; NUMBER OF SEQ ID NOS: 10730
; SEQ ID NO 3922
; LENGTH: 1048
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana columbia
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (2)..(826)
; OTHER INFORMATION: Clone ID: LIB3176-108-G9_FLI
US-60-312-544-3922

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QY	65	AGAAATCGTTTGAAATTCATGCAAAAAAGTTTCGCGTCTGCTGTGACGGTGAAGAACTGACCG	124
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QY	185	CTTCGCGTATCATCTCTCCATCGAACAGAGAAGAAATCCCGTGGTATCCGACGACGACCAG	244
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QY	245	TTACCGCTATCCGTGAATACCGTTCCAAAATCGAAAACCGAACTGTCCGGTATCTGCGACG	304
Db	285	TGACCACCATCCGTGATTCACAGAAGCAAGATCGAATCTGAGTTATCGAAAATCTGTGACG	344
QY	305	GTATCTGAAAATCGCTGGACCTCCGCTCTGATCCCGGCTGCTGCTCCGGTGACTCCAAAG	364
Db	345	GTATCTCTTAAAGCTCTTGATACCTAGACTTGTTCCTGCTTCTGCTAATGGAGATCTAAG	404
QY	365	TTTTTCTACTGAAAATGAAAGGTGACTACACCGGTACTCTGGCTGAGTTTAAACCGGTC	424
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QY	425	AGGAACGTAAAGACGCTGCTGAAACACACCCCTGCTGCTTACAAAATCCGCTCAGACACATCG	484

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 6, 2004, 23:42:44 ; Search time 537 Seconds
(without alignments)
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Gapop 10.0 , Gapext 1.0

Searched: 2995936 seqs, 2280998010 residues

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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	459.2	58.4	1092	16 US-10-310-154-214	Sequence 214, App
2	432.2	55.0	789	9 US-09-887-576-813	Sequence 813, App
3	424.4	54.0	783	9 US-09-887-576-799	Sequence 799, App
4	424.4	54.0	1004	16 US-10-310-154-220	Sequence 220, App
5	420.8	53.5	1141	15 US-10-226-715-9	Sequence 9, Appl
6	413.2	52.6	798	9 US-09-938-842A-637	Sequence 637, App
7	413.2	52.6	798	9 US-09-938-842A-637	Sequence 637, App
8	411.4	52.3	1172	16 US-10-310-154-219	Sequence 219, App
9	407.2	51.8	798	9 US-09-887-576-790	Sequence 790, App
10	407	51.8	788	9 US-09-938-842A-429	Sequence 429, App
11	407	51.8	788	11 US-09-938-842A-429	Sequence 429, App
12	406	51.7	927	9 US-09-887-576-789	Sequence 789, App
13	405.4	51.6	768	13 US-10-412-699B-343	Sequence 343, App
14	405.4	51.6	768	13 US-10-225-066A-789	Sequence 789, App

ALIGNMENTS

15	405.4	51.6	768	16 US-10-374-780A-2349	Sequence 2349, App
16	399.4	50.8	1283	13 US-10-425-114-21156	Sequence 21156, A
17	395.8	50.4	887	13 US-10-425-114-12156	Sequence 12156, A
18	385.6	49.1	995	13 US-10-425-114-12156	Sequence 12156, A
19	385.6	49.1	1002	13 US-10-425-114-12156	Sequence 12156, A
20	385.6	49.1	1003	9 US-09-770-445-188	Sequence 188, App
21	385.6	49.1	1040	13 US-10-412-699B-341	Sequence 341, App
22	385.6	49.1	1040	13 US-10-278-173-157	Sequence 157, App
23	385.6	49.1	1040	13 US-10-278-173-157	Sequence 157, App
24	382.4	48.7	1040	13 US-10-425-114-12156	Sequence 12156, A
25	379.6	48.3	840	9 US-09-828-447-9	Sequence 9, Appl
26	375.2	47.7	937	13 US-10-425-114-14710	Sequence 14710, A
27	366.8	45.4	1000	13 US-10-425-114-14677	Sequence 14677, A
28	366.8	45.4	1008	13 US-10-425-114-12698	Sequence 12698, A
29	366.8	45.4	1139	13 US-10-425-114-14600	Sequence 14600, A
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31	345.4	43.9	958	13 US-10-425-114-11091	Sequence 11091, A
32	344.4	43.8	900	13 US-10-425-114-22315	Sequence 22315, A
33	343	43.6	792	15 US-10-242-943-7	Sequence 7, Appl
34	343	43.6	1726	15 US-09-738-630-57	Sequence 67, Appl
35	343	43.6	1726	15 US-10-171-581-51	Sequence 51, App
36	343	43.6	1850	9 US-09-925-100-410	Sequence 410, App
37	338.4	43.1	887	13 US-10-425-114-2770	Sequence 2770, App
38	335.8	42.7	989	13 US-10-425-114-19460	Sequence 19460, App
39	334.6	42.6	1084	16 US-10-161-927-51	Sequence 51, Appl
40	333.8	42.5	822	16 US-10-369-493-25317	Sequence 25317, A
41	329.8	42.0	804	16 US-10-369-493-25667	Sequence 25667, A
42	326.6	41.6	1284	16 US-10-310-154-218	Sequence 218, App
43	326.4	41.5	916	9 US-09-828-447-8	Sequence 8, Appl
44	326	41.5	852	15 US-10-161-051-141	Sequence 141, App
45	326	41.5	1123	16 US-10-310-154-212	Sequence 212, App

RESULT 1

US-10-310-154-214	Application US/10310154
Sequence 214, App	Publication No. US20030233670A1
GENERAL INFORMATION:	
APPLICANT: Edgerton, Michael D	
APPLICANT: Chomet, Paul S.	
APPLICANT: Adams, Thomas H.	
APPLICANT: Ruff, Thomas G.	
APPLICANT: Agarwal, Ameeta K.	
APPLICANT: Ahrens, Jeffrey E.	
APPLICANT: Ball, James A.	
APPLICANT: Banu, G.	
APPLICANT: Bell, Erin	
APPLICANT: Boddupall, Raghava	
APPLICANT: Deikman, Jill	
APPLICANT: Deng, Molian	
APPLICANT: Dong, Jinzhuo	
APPLICANT: Duff, Stephen M.	
APPLICANT: Galligan, Meghan M.	
APPLICANT: Hinchey, Brenda S.	
APPLICANT: Huang, Shihshieh	
APPLICANT: Johnson, G. Richard	
APPLICANT: Jung, Vincent	
APPLICANT: Kretzmer, Keith A.	
APPLICANT: Laccetti, Lucille B.	
APPLICANT: Lai, Chao-Qiang	
APPLICANT: Lee, Gary	
APPLICANT: Lin, Jie-Yi	
APPLICANT: Lin, Jie-Yi	
APPLICANT: Lu, Jie-Yi	
APPLICANT: Lu, Bin	
APPLICANT: Lunethy, Michael M.	
APPLICANT: Lund, Adrian	
APPLICANT: Madison, Linda L.	
APPLICANT: Malloy, Kathleen A.	
APPLICANT: McKel, Christine L.	
APPLICANT: Miller, Philip W.	


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Db 384 CCTCAAAATAGAGGTGACTACTACAGTACCTTGGCGAAATTTAAAGACCGGGCTGAGAG 443
Qy 432 TAAAGACGCTGTGAACACACCCCTGGCTGTTCATCAATCCGCTCAGAGACCTGCTAACGC 491
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RESULT 3
US-09-887-576-799
; Sequence 799, Application US/09887576
; Patent No. US20020144047A1
; GENERAL INFORMATION:
; APPLICANT: Budworth, P.
; APPLICANT: Brown, D.
; APPLICANT: Chang, H.
; APPLICANT: Zhu, T.
; APPLICANT: Han, B.
; APPLICANT: Wang, X.
; APPLICANT: Cooper, Bret
; TITLE OR INVENTION: Promoters for regulation of plant expression
; FILE REFERENCE: 1360.001US1
; CURRENT APPLICATION NUMBER: US/09/887,576
; PRIOR FILING DATE: 2001-06-25
; PRIOR APPLICATION NUMBER: US 60/213,848
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: US 60/214,087
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: US 60/256,692
; PRIOR FILING DATE: 2000-12-29
; NUMBER OF SEQ ID NOS: 875
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 799
; LENGTH: 783
; TYPE: DNA
; ORGANISM: Oryza sativa
US-09-887-576-799

Query Match 54.0%; Score 424.4; DB 9; Length 783;
Best Local Similarity 73.1%; Pred. No. 1.6e-129;
Matches 545; Conservative 0; Mismatches 201; Indels 0; Gaps 0;
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RESULT 4
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; Sequence 220, Application US/10310154
; Publication No. US20030233670A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; APPLICANT: Chomet, Paul S.
; APPLICANT: Adams, Thomas H.
; APPLICANT: Ruff, Thomas G.
; APPLICANT: Agarwal, Ameela K.
; APPLICANT: Ahrens, Jeffrey E.
; APPLICANT: Ball, James A.
; APPLICANT: Banu, G.
; APPLICANT: Bell, Erin
; APPLICANT: Boddupalli, Raghava
; APPLICANT: Deikman, Jill
; APPLICANT: Deng, Molian
; APPLICANT: Dong, Jizhuo
; APPLICANT: Duff, Stephen M.
; APPLICANT: Galligan, Meghan M.
; APPLICANT: Hinchey, Brenda S.
; APPLICANT: Huang, Shihshieh
; APPLICANT: Johnson, G. Richard
; APPLICANT: Jung, Vincent
; APPLICANT: Kretzmer, Keith A.
; APPLICANT: Laccetti, Lucille B.
; APPLICANT: Lai, Chao-Qiang
; APPLICANT: Lee, Gary
; APPLICANT: Lin, Jie-Yi
; APPLICANT: Liu, Jingdong
; APPLICANT: Lu, Bin
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US-09-938-842A-637
; Sequence 637, Application US/09938842A
; Patent No. US20020160378A1
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Kieps, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; FILE REFERENCE: SRIPI300-3
; CURRENT APPLICATION NUMBER: US/09/938,842A
; PRIORITY FILING DATE: 2001-08-24
; PRIORITY APPLICATION NUMBER: US 60/227,866
; PRIORITY FILING DATE: 2000-08-24
; PRIORITY APPLICATION NUMBER: US 60/264,647
; PRIORITY FILING DATE: 2001-01-16
; PRIORITY APPLICATION NUMBER: US 60/300,111
; NUMBER OF SEQ ID NOS: 5379
; SEQ ID NO 637
; LENGTH: 798
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-938-842A-637

Query Match 52.6%; Score 413.2; DB 9; Length 798;
Best Local Similarity 71.0%; Pred. No. 8.4e-126;
Matches 547; Conservative 0; Mismatches 223; Indels 0; Gaps 0;

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US-09-938-842A-637
; Sequence 637, Application US/09938842A
; Publication No. US20040009476A9
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Kieps, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; FILE REFERENCE: SRIPI300-3
; CURRENT APPLICATION NUMBER: US/09/938,842A
; PRIORITY FILING DATE: 2001-08-24
; PRIORITY APPLICATION NUMBER: US 60/227,866
; PRIORITY FILING DATE: 2000-08-24
; PRIORITY APPLICATION NUMBER: US 60/264,647
; PRIORITY FILING DATE: 2001-01-16
; PRIORITY APPLICATION NUMBER: US 60/300,111
; NUMBER OF SEQ ID NOS: 5379
; SEQ ID NO 637
; LENGTH: 798
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-938-842A-637

Query Match 52.6%; Score 413.2; DB 11; Length 798;
Best Local Similarity 71.0%; Pred. No. 8.4e-126;
Matches 547; Conservative 0; Mismatches 223; Indels 0; Gaps 0;

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DB 1 ATGTCGCTTCTCGGAGAGAGATGTGTACTTACCAAGTTAGCTGACAGCTGAACGT 60
QY 61 TAGGAGAAATGTTGAATTCATGAGAAAGTTCCGCTGCTGTGACGCTGAGAGAACTG 120

Db 61 TATGAGAAATGGTTGAGTTTCATGAGAAAGTTGCAAGAGCTGTTGACACCGATGAGCTT 120
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Db 361 AAAGTCTTTTACCTCAAAATGAAAGGAGATACCAACAGGTACCTGGCTGAGTTTAAAG 420
QY 421 GGTGAGGAGCTGAAAGAGCTGCTGAACACACCTGGCTTACAAATCGCTCAGAC 480
Db 421 GGAGCTGAGAGAAAGAGCTGCTGAGAGCACTCTGGTGTCTTACAGTCAAGTCAAGAT 480
QY 481 ATCGTAAAGCTGAACTGGCTCCGACCCACCGATCCGCTGGGTCTGGCTCTGAATTC 540
Db 481 ATTGCACTTGTGATTTAGTCTCTACTCATCGATTAGACTGGGACTTGTCTTAACTTC 540
QY 541 TCGTTTCTACTAGAAATCTGAACTCCCGGACCGTGTGCAACCTGGCTGCTTAAACAG 600
Db 541 TCTGTCTTCTACTAGAGATTTCAACTCAGCTGATCGCTGCTGAGTCTGCAAAACAG 600
QY 601 GCTTTTCGAGAGCTATCGCTGAGCTCGACACCTCGGTGAGAAATCTTACAAAGACTCC 660
Db 601 GCTTTGATGAGGCACTTCTGAGCTGATCATTAGAGAGATCATACAAAGAGAT 660
QY 661 ACCTGATCATGCACTGCTGCTGAGCAACCTGACCTGCTGAGCTCGCAATCGAGAC 720
Db 661 ACGTTGATAATGCAACTTCTCGGTGACAACTCTGACCTTTGAACTCTGACATCAATGAT 720
QY 721 GACGCTGCTGAGAAATCAAGAACTGCTGCTCGAAACCGACCGAAGA 770
Db 721 GAGGCGGCGGTGATGAGATCAGAGGCGGTCAAAACATGAGCCGGAAGA 770

RESULT 8
US-10-310-154-219
; Sequence 219, Application US/10310154
; Publication No. US20030233670A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; APPLICANT: Chomet, Paul S.
; APPLICANT: Adams, Thomas H
; APPLICANT: Ruff, Thomas G.
; APPLICANT: Agarwal, Aneeta K.
; APPLICANT: Ahrens, Jeffrey E.
; APPLICANT: Ball, James A.
; APPLICANT: Banu, G.
; APPLICANT: Bell, Erin
; APPLICANT: Boddupalli, Raghava
; APPLICANT: Deikman, Jill
; APPLICANT: Deng, Nolian
; APPLICANT: Dong, Jinhua
; APPLICANT: Duff, Stephen M.
; APPLICANT: Galligan, Meghan M.
; APPLICANT: Hinchey, Brenda S.
; APPLICANT: Huang, Shihshieh
; APPLICANT: Johnson, G. Richard
; APPLICANT: Jung, Vincent
; APPLICANT: Kretzmer, Keith A.
; APPLICANT: Laccetti, Lucille B.

; APPLICANT: Lai, Chao-Qiang
; APPLICANT: Lee, Gary
; APPLICANT: Lin, Jie-Yi
; APPLICANT: Liu, Jingdong
; APPLICANT: Lu, Bin
; APPLICANT: Lueby, Michael M.
; APPLICANT: Lund, Adrian
; APPLICANT: Madson, Linda L.
; APPLICANT: Malloy, Kathleen A.
; APPLICANT: McKiel, Christine L.
; APPLICANT: Miller, Philip W.
; APPLICANT: Padmavathi, Manohikanti
; APPLICANT: Parnell, Laurence D.
; APPLICANT: Start, William G.
; APPLICANT: Tennesen, Dan
; APPLICANT: Vidya, K.R.
; APPLICANT: Wang, Haiyuan
; APPLICANT: Xin, Zhanqun
; APPLICANT: Xu, Nanfei
; APPLICANT: Yang, Chunzhi
; APPLICANT: Zeng, Xiaoping
; APPLICANT: Zhang, Qiang
; APPLICANT: Zhao, Yajuan
; APPLICANT: Zhou, Li
; TITLE OF INVENTION: Gene Sequences and Uses Thereof in Plants
; FILE REFERENCE: 38-15(52796)B
; CURRENT APPLICATION NUMBER: US/10/310,154
; CURRENT FILING DATE: 2002-12-04
; PRIOR APPLICATION NUMBER: 60/337,358
; PRIOR FILING DATE: 2001-12-04
; NUMBER OF SEQ ID NOS: 736
; SEQ ID NO 219
; LENGTH: 1172
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (81)..(848)
; OTHER INFORMATION:
US-10-310-154-219

Query Match 52.3%; Score 411.4; DB 15; Length 1172;
Best Local Similarity 72.6%; Pred. No. 4e-125;

Matches 532; Conservative 0; Mismatches 201; Indels 0; Gaps 0;

QY 14 GAGAAGAACTGGTTTACATGGCTAGATGGCTGGAACAGAGCTGAACGTTACGAGAAATGG 73
Db 88 GGGAGAGAAATGTCTACATGGCCAAAGCTGGCCGAGCAGGCTGAAAGGTATGAGGAGATGG 147
QY 74 TTGAATTCATGGAAGAAAGTTTCCGCTGCTGTTGACGGTGACGAACTGACCGTTGAAGAAC 133
Db 148 TTGAGTACATGGAGAGAGGTTGCAAGAGCTGTAGATGTGGAAGAGGCTCACTGTTGAGGAGC 207
QY 134 GTAACCTGCTGCTCCGTTGCTTACAAAAAGTTTATCGGTGCTGCTGCTGCTGCTGCTGCTG 193
Db 208 GCAACCTCTGTCTGTGTTGCTTACAAAGATGTGTTGGTGGCCGCGCTGCTGCTGCTGCTG 267
QY 194 TCATCTCTCCATCGAACAGAAAGAAATCCCGTGGTGAACGACGACCACTGTTACCGCTA 253
Db 268 TTGTCTCATCCATTGAACAGAGAGGAGGCTGCTGGCAATGAGGAACATGTTACTCTGA 327
QY 254 TCCGTGAATACCGTTCCAAAATCGAAAACGAACTGTCGGTATCTGCGACGGTATCCTGA 313
Db 328 TCAAGGAGTACCGTGGCAAGATTGAAGCTGAGCTGAGCAAGATTTCGATGTTATCTGA 387
QY 314 AACTGCTGAGCTCCCGTCTGATCCCGGCTGCTGCTTCCGGTGAATCCCAAGTTTCTTACC 373
Db 388 AGTTGCTGACTCACACCTTGTGCTCTCATCTACTGCTGCAGAACTCAAGGTGTTTACC 447
QY 374 TGAAGTGAAGGCTGACTACCAACCGCTGCTGCTGAGTTTAAACCGCTCAGGAGACGTA 433
Db 448 TCAAGTGAAGGCTGATTAACCAAGTACCTTCCGAAATTTAAGACTGTTGCCGAGAGAA 507

QY	433	AABAAGCTGTGAACACACCCCTGGGCTCTTAATAATCCGCTCAGGACATGGCTAAAGCTG	493
Db	508	AGGAAGCTGTGAGACCAATGTGTGCTTCAAGAGGCTCTCAGGATTTTCTCTGGCGG	567
QY	494	AACTGGCTCCGACCCACCCGATCCGTGTGGTCTGTGGCTCTGAACTTCTCCGTTTCTACT	553
Db	568	ATTTTCTCTCCACCCCATATCCCATTAAGGCTTGGACTGGCACTTAATCTCTGTGTCTTAAT	627
QY	554	ACGAATTCCTGAACCTCCCGGACCCGGTCTTGCACCTGACCTAAACAGGCTTTGACGAG	613
Db	628	ACGAGATTCTAAACTCTCCAGACAAAGCTTGCACCTTGCTTAAGAGGCGTTTGAACGAG	687
QY	614	CTATCGCTGAGCTGCACCCCTGGGTGAAGATCTTACAAAGACTCCACCTGATCATGC	673
Db	688	CCATCTCCGAGTTGATATCCCTCGGGGAGAACTTCAAGAGACAGCATTTGATCATGC	747
QY	674	AGCTGTGCTGACCAACTGACCTGTGGACCTCCGACATGACGAGACGACGCTGCTAG	733
Db	748	AGTCTCGAGGAGCAACTTGACCTTGTGACCTTGACCTCACGGAGGACGCTGTGATG	807
QY	734	AAATCAAGAGC	746
Db	808	AGGTGAAGAGC	820

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RESULT 9
US-09-887-576-790
; Sequence 790, Application US/09887576
; Patent No. US20020144047A1
; GENERAL INFORMATION:
; APPLICANT: Budworth, P.
; APPLICANT: Brown, D.
; APPLICANT: Chang, H.
; APPLICANT: Zhu, T.
; APPLICANT: Han, B.
; APPLICANT: Wang, X.
; APPLICANT: Cooper, Bret
; TITLE OF INVENTION: Promoters for regulation of plant expression

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CURRENT APPLICATION NUMBER: US/09/887,576
CURRENT FILING DATE: 2001-06-25
PRIOR APPLICATION NUMBER: US 60/213,848
PRIOR FILING DATE: 2000-06-23
PRIOR APPLICATION NUMBER: US 60/214,087
PRIOR FILING DATE: 2000-06-23
PRIOR APPLICATION NUMBER: US 60/258,692
PRIOR FILING DATE: 2000-12-29
NUMBER OF SEQ ID NOS: 875
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 790
LENGTH: 798
TYPE: DNA
ORGANISM: Oryza sativa
US-09-887-576-790

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Query Match	51.8%	Score 407.2	DB 9	length 798
Best Local Similarity	71.6%	Pred. No. 8	1e-124	
Matches	554	Conservative	0	Mismatches 208; Indels 12; Gaps 1

QY	13	AGAGAAAGAACTGTTTACATGGCTTGACTGCTGAAACAGGCTGAACGTTACGAAAGAAATG	72
Db	22	AGGGGAGAGAGCGTGTACAGGCGAAGCTGGCGGAGCAAGCGGACGGACGGTACAGAGAGATG	81
QY	73	GTTGAATTCATGAAAAAGTTCCGCTGCTGTGA-----CGGTGACCAACTG	120
Db	82	GTTGAGTTCATGAGACCGCTGGCGCGCGCGGCGGCGCGCTCCGCGCGGAGAGAGCTC	141
QY	121	ACCGTTGAAGAACGTAACCTGCTGCCGTTGCCGTTTCAAAAACGTTATCGGTCTGTGCGT	180
Db	142	ACGGTGAAGACGGAACCTGCTGTTCGTTGCGCTACAAAGACGTCAATCGAGCCGCCGCGC	201
QY	181	GCTTCTGCGGTATCTCTCTCATCGAACGAAAGAAAGAAATCCGTGTGTAACGACGAC	240

Dp	202	GGGTGCTGGGGATCATCTCCGTCGATCGAGCAGGAAGGAGGAGGCGCGGGAAACGACGCC	261
Qy	241	CACGTTACCGCGTATCCGTCGATATCCGTTCCAAAATCGAAACCGAATCTGTCGGATATCTGC	300
Dp	262	CAGCGCGGCACCATCCGCTCTCAACGAGGACAAAGATCGAAGCGCAGAGCTGCGCCGATCTGC	321
Qy	301	GACGATATCCTGAAACTGCTGGACTCCCGCTGATATCCCGAGCTGCTGCTTCGCGTACCTCC	360
Dp	322	GACGGATCTTGCCCTGTGCTGACCTCCACCTCGTCCCTCCGCGCGCGCGCGAGTCC	381
Qy	361	AAAGTTTCTACCTGAAAATGAAAGTACTTACCAACGGATACCTGCTGATGTTTAAAAC	420
Dp	382	AAAGTTTCTACCTCAAGATGAAAGGCGACATCACAGATACCTTGGAGTTTAAAGTT	441
Qy	421	GGTCAGAAACGTAAAAGACGTGCTGAAACACACCCCTGGCTGTTCAATCCGCTCAGAC	480
Dp	442	GGGACGAGAGGGAAGAGGCTGCGGAGAGCAGCATGATATGATTCAAAGGCTGCTCAGGAC	501
Qy	481	ATGCTTAAAGCTGAACTGGCTCCACCCACCCGATCCGTCGGGCTGGGCTTGAACCTC	540
Dp	502	ATTGCTCTGCGAGATTTGGCTCGAGCCACCCCAATAAAGCTTTGGGCTTGAATCCAACTTT	561
Qy	541	TCCGTTTCTACTAGAAATCCTGAACTCCCGGACCGGTGTTCAACTGGCTTAAACAG	600
Dp	562	TCAGTGTTTCACTAAGAGATCTTGAATCCCTGACCGTGCCTCAACCTCGGAAACAG	621
Qy	601	GCCTTTCGAGGAAGCTATCGCTGAGTTCGACACCTCGGCTGAAGAACTCTCAAAAGACTCC	660
Dp	622	GCGTTTGAAGAGGCCATATCAAAATCGAACAGCCTTGGTGAAGATCTTCAAGGAGAGC	681
Qy	661	ACCGTATCATGAGCTGCTGCTGTCGACACCTGACCCCTGTCGACCTCCGACATGACAGAC	720
Dp	682	ACCTTATCATGAGGCTCGCTGCTGACAACTTGAATCTGTGGACTTCAGATGCCAATGAT	741
Qy	721	GACGCTGCTGAGGAATCAAAGAACTGCTGCTCCGAAACCGACCGAAGAACAG	774
Dp	742	GATGGTGGTGCAGAAATCAAGGAACCGACACTCCAAAGAGGCTTGGGAGATCAG	795

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QY      13 AGAGAGAACTGGTTTTCATGGCTAGACTGGCTGACAGGCTGACGTTACGTAAGAAATG 72
DB      10 AGGAGAGGAATGTTTTCATGGCGGAATTGACCGAACAAGCTGAAACGTTACGAAAGAAATG 69

US-09-938-842A-429
: Sequence 429, Application US/09938842A
: Patent No. US20020160378A1
: GENERAL INFORMATION:
: APPLICANT: Harper, Jeff
: APPLICANT: Kreps, Joel
: APPLICANT: Wang, Xun
: APPLICANT: Zhu, Tong
: TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
: FILE REFERENCE: S01P100-3
: CURRENT APPLICATION NUMBER: US/09/938,842A
: CURRENT FILING DATE: 2001-08-24
: PRIOR APPLICATION NUMBER: US 60/227,866
: PRIOR FILING DATE: 2000-08-24
: PRIOR APPLICATION NUMBER: US 60/264,647
: PRIOR FILING DATE: 2001-01-16
: PRIOR APPLICATION NUMBER: US 60/300,111
: PRIOR FILING DATE: 2001-06-22
: NUMBER OF SEQ ID NOS: 5379
: SEQ ID NO 429
: LENGTH: 768
: TYPE: DNA
: ORGANISM: Arabidopsis thaliana
US-09-938-842A-429

Query Match      51.8%; Score 407; DB 9; Length 768;
Best Local Similarity 71.0%; Pred. No. 9,3e-124;
Matches 539; Conservative 0; Mismatches 220; Indels 0; Gaps 0;

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Db |||||
QY 70 GTTGAATTCATCGAAGAAAGTTTCCGAAACCTGTTGATGTTGAGAACTTTTCAGTTGAAGAG 129
Db |||||
QY 133 CGTAACTGCTGCTCCGTTGCTTTACAAAACAGTTATCCGCTGCTCGTCGCTTCCCTGCGT 192
Db |||||
QY 130 AGGAATCTCTCTGTTGCTTACAGAAACGTTGATGAGCGAGAGAGCTTCTGTGAGA 189
QY 193 ATCATCTCTCCATCGAACAGAAAGAAATCCCGTGTGTAACGACGACCACTTACCCTG 252
Db |||||
QY 190 ATCATCTCTCTGTTGCTTACAGAAACGTTGATGAGCGAGAGAGCTTCTGTGAGA 249
QY 253 ATCCGTGATACCGTTCCAAATCCAAACGAACTGTCGCTGCTGCTGCTGCTGCTGCTG 312
Db |||||
QY 250 ATCAAGGATTCAGAGAAAGTTGAAATCCGAGCTTACAAATCTGCTCCGACATGCTGCT 309
QY 313 AAATGCTGGAATCCCGTCTGATCCCGCTGCTGCTTCCGCTGCTGCTGCTGCTGCTGCT 372
Db |||||
QY 310 AATGTTCTTGAAGCTCATCTATTCTCTCTGCTTACCAGCTGAATCTTAAAGTCTTTAT 369
QY 373 CTGAAATGAAAGGTGACTACCCCGCTGCTGCTTACAAATCCGCTGCTGCTGCTGCTGCT 432
Db |||||
QY 430 AAAGAACTGCTGAAAGCACTTTGTTGCTTACAACTGCTTCCGACATGCTGCTGCTGCT 489
QY 493 GAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 552
Db |||||
QY 490 GAGTTAGCTCTTACTACCCCGATGAGGCTTGGTCTGCTGCTGCTGCTGCTGCTGCTGCT 549
QY 553 TACGAAATCCCTGAACTCCCGGACCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 612
Db |||||
QY 550 TATGAATCCCTCACTCCGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGAT 609
QY 613 GCTATCGCTGAGCTCGACACCTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 672
Db |||||
QY 610 GCAATCGCTGAGTTAGATACATTTGGTGGAGAACTATCAAGGACAGTACACTGATTATG 669
QY 673 CAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 732
Db |||||
QY 670 CAGCTTCTTAGAGCAATCTCACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 729
QY 733 GAAATCAAGAAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 771
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QY 730 GAGATTAAGGAGGATCAAGCCGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 768

RESULT 11

US-09-938-842A-429
; Sequence 429, Application US/0993842A
; Publication No. US20040009476A9
; GENERAL INFORMATION:
; APPLICANT: Harper, Joel
; APPLICANT: Kreps, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; FILE REFERENCE: SCRIPI300-3
; CURRENT APPLICATION NUMBER: US/09/938.842A
; CURRENT FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/227,866
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/264,647
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/300,111
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5379
; SEQ ID NO 429
; LENGTH: 768

RESULT 12

US-09-887-576-789
; Sequence 789, Application US/09887576
; Patent No. US2002014407A1
; GENERAL INFORMATION:
; APPLICANT: Budworth, P.
; APPLICANT: Brown, D.
; APPLICANT: Chang, H.
; APPLICANT: Zhu, T.
; APPLICANT: Han, B.
; APPLICANT: Wang, X.
; APPLICANT: Cooper, Bret

; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-938-842A-429
Query Match 51.8%; Score 407; DB 11; Length 768;
Best Local Similarity 71.0%; Pred. No. 9.3e-124; Indels 0; Gaps 0;
Matches 539; Conservative 0; Mismatches 220;
QY 13 AGAAGAAAGTGGTTTACATGCTAGACTGGCTGAAACAGGCTGAACGTTTACGAAGAAATG 72
Db |||||
QY 10 AGGGAAGAGAAATGTTTACATGCGGAAATTAGCCGAACAGCTGAACTTACGAAGAAATG 69
Db |||||
QY 73 GTTGAATTCATCGAAGAAAGTTTCCGCTGCTGTTGAGCGGTGACGAACTGCTGCTGCTGCT 132
Db |||||
QY 70 GTTGAATTCATCGAAGAAAGTTTCCGAAACCTGTTGATGTTGAGAACTTTTCAGTTGAAGAG 129
QY 133 CGTAACTGCTGCTGCTGCTTACAAAACGTTATCCGCTGCTGCTGCTGCTGCTGCTGCTGCT 192
Db |||||
QY 130 AGGAATCTCTCTGCTTACAGAAACGTTGATGAGCGAGAGAGCTTCCGTTGAGAGA 189
QY 193 ATCATCTCTCCATCGAACAGAAAGAAATCCCGTGTGTAACGACGACCACTTACCCTG 252
Db |||||
QY 190 ATCATCTCTCTGTTGCTTACAGAAACGTTGATGAGCGAGAGAGCTTCTGTGAGA 249
QY 253 ATCCGTGATACCGTTCCAAATCCAAACGAACTGTCGCTGCTGCTGCTGCTGCTGCTGCTG 312
Db |||||
QY 250 ATCAAGGATTCAGAGAAAGTTGAAATCCGAGCTTACAAATCTGCTCCGACATGCTGCT 309
QY 313 AAATGCTGGAATCCCGTCTGATCCCGCTGCTGCTTCCGCTGCTGCTGCTGCTGCTGCTGCT 372
Db |||||
QY 310 AATGTTCTTGAAGCTCATCTATTCTCTCTGCTTACCAGCTGAATCTTAAAGTCTTTAT 369
QY 373 CTGAAATGAAAGGTGACTACCCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 432
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QY 370 CTTAAGTGAAGGTTGATTCATAGGTTATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 429
QY 433 AAAGAGCTGCTGCTGCTGCTTACAAATCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 492
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QY 430 AAAGAGCTGCTGCTGCTGCTTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 489
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QY 490 GAGTTAGCTCTTACTACCCCGATGAGGCTTGGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 549
QY 553 TACGAAATCCCTGAACTCCCGGACCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 612
Db |||||
QY 550 TATGAATCCCTCACTCCGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGAT 609
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QY 610 GCAATCGCTGAGTTAGATACATTTGGTGGAGAACTATCAAGGACAGTACACTGATTATG 669
QY 673 CAGCT 732
Db |||||
QY 670 CAGCTTCTTAGAGCAATCTCACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 729
QY 733 GAAATCAAGAAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 771
Db |||||
QY 730 GAGATTAAGGAGGATCAAGCCGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 768

APPLICANT: Heard, Jacqueline E
 APPLICANT: Haake, Volker
 APPLICANT: Creelman, Robert A
 APPLICANT: Ratcliffe, Oliver
 APPLICANT: Adam, Luc J
 APPLICANT: Reuber, T. Lynne
 APPLICANT: Keddie, James
 APPLICANT: Brown, Pierre E
 APPLICANT: Pilgrim, Marsha L
 APPLICANT: Dubeil III, Arnold T
 APPLICANT: Pineda, Omaira
 APPLICANT: Yu, Guo-Liang
 FILE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES IN PLANTS
 FILE REFERENCE: MBI-0047 CIP
 CURRENT APPLICATION NUMBER: US/10/374,780A
 PRIOR FILING DATE: 2003-02-25
 PRIOR APPLICATION NUMBER: 09/837,944
 PRIOR FILING DATE: 2001-04-18
 PRIOR APPLICATION NUMBER: 60/310,847
 PRIOR FILING DATE: 2001-08-09
 PRIOR APPLICATION NUMBER: 09/934,455
 PRIOR FILING DATE: 2001-08-22
 PRIOR APPLICATION NUMBER: 60/336,049
 PRIOR FILING DATE: 2001-11-19
 PRIOR APPLICATION NUMBER: 60/338,692
 PRIOR FILING DATE: 2001-12-11
 PRIOR APPLICATION NUMBER: 10/171,468
 PRIOR FILING DATE: 2002-06-14
 PRIOR APPLICATION NUMBER: 10/225,066
 PRIOR FILING DATE: 2002-08-09
 PRIOR APPLICATION NUMBER: 10/225,067
 PRIOR FILING DATE: 2002-08-09
 PRIOR APPLICATION NUMBER: 10/225,068
 PRIOR FILING DATE: 2002-08-09
 NUMBER OF SEQ ID NOS: 2306
 SOFTWARE: PatentIn version 3.2
 SEQ ID NO 2349
 LENGTH: 768
 TYPE: DNA
 ORGANISM: Arabidopsis thaliana
 FEATURE:
 OTHER INFORMATION: G536
 US-10-374-780A-2349

Query Match 51.6%; Score 405.4; DB 16; Length 768;
 Best Local Similarity 70.9%; Pred. No. 3.1e-123;
 Matches 538; Conservative 0; Mismatches 221; Indels 0; Gaps 0;

QY 13 AGAGAGAACTGGTTACATGAGCTAGAGCTGGAACAGGCTGAACCTTACGAGAAATG 72
 DB 10 AGGAGAGAGAAATGTTTACATGAGGAAATAGCCGAAACAGCTGACCTTACGAGAAATG 69
 QY 73 GTTGAATTCATGAGAAAGTTTCGCTGCTGTTGACGCTGACGAACTGACCGTTGAGAA 132
 DB 70 GTTGAATTCATGAGAAAGTTTCGAAACTGTTGAGAACTTCAAGTTGAAGAG 129
 QY 133 CGTAACTGCTGCTCCGTTGCTTACAAAGCTATGCGTCTGCTGCTGCTGCTGCTGCT 192
 DB 130 AGGATTTCTCTGTTGCTTACAGAACGATTTGAGCGAGAAAGCTTCTGTTGAGA 189
 QY 193 ATGATCTCTCATCGAACAGAAAGAAATCCGCTGTAAACGACGACGACCTTACCGCT 252
 DB 190 ATCATTTCTTCTGTTGCTTACAGAACGATTTGAGCGAAAGGAAAGATCATGTTGCTATT 249
 QY 253 ATCCGTAATACCGTTCCAAATTCGAAACCGAACTGTCGCTATCTGCGACGTTATCTTG 312
 DB 250 ATCAAGATTACAGAGAGAGATTAATCCGACCTTACGAAATCTGTATGAGATTTTG 309
 QY 313 AAATGCTGAGCTCCCGCTGATCCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 372
 DB 310 AATGTTCTTAAGCTCATCTTATTTCTTCTGCTTCAACGAGCTGAATCTAAAGTTTAT 369
 QY 373 CTGAAATGAAAGTACTCAACCGCTACCTGCTGAGTTTAAACCGGTCAAGAGCT 432

DB 370 CTTAAGATGAAGGTGATTTATCATAGTATCTTGCGAGTTTAAAGCTGCTGTAAGG 429
 QY 433 AAAGAGCTGCTGAACACACACCTGCTGCTTACAAATCCGCTAGAGACATCGCTAACGCT 492
 DB 430 AAAGAGCTGCTGAACACACCTGCTGCTTACAAATCCGCTAGAGACATCGCTAACGCT 489
 QY 493 GAATGCTGCTGACCCGACCCGATCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 552
 DB 490 GAGTTAGCTCTTACTACCCGATTAAGCTTGGCTTGAAGCTTCAACTTCTGTTTAT 549
 QY 553 TACGAAATCTGAACTCCCGGACCGCTGCTTGAACCTGCTTAAACGCTTTCAGCAA 612
 DB 550 TATGAAATCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 609
 QY 613 GCTATGCTGAGCTGACACCCCTGGGTGAGAAATCCATCAAAAGACTCCACCTGATCATG 672
 DB 610 GCAATGCTGAGTTAGTTATGATGATGAGGAAATCATACAGACATGATGATGATGATG 669
 QY 673 CAGCTGCTGCTGACCACTGACCCCTGCTGACCTCCGACATGACAGAGACAGCTGCTGAC 732
 DB 670 CAGCTTCTTGAAGCAATCTCACTCTCTGAGCTTCAAGATATGACTGACGAGAGAGAT 729
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 Job time : 540 secs

Mon Jun 7 09:14:19 2004

US-09-507-166-38.rn1

Page 1

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OM nucleic - nucleic search, using sw model

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Perfect score: 786
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Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-Processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	384	48.9	845	1	US-08-266-451B-1 Sequence 1, Appl
3	384	48.9	845	2	US-08-748-725-1 Sequence 1, Appl
4	343	43.6	792	4	US-09-167-206-7 Sequence 7, Appl
5	280.8	35.7	1320	4	US-09-210-748A-1 Sequence 1, Appl
6	279.6	35.6	1245	1	US-07-887-072B-1 Sequence 1, Appl
7	279.6	35.6	1245	1	US-08-466-444-1 Sequence 1, Appl
8	269.8	34.3	853	1	US-07-876-284-1 Sequence 1, Appl
9	269.8	34.3	2834	1	US-08-276-151-8 Sequence 8, Appl
10	263.4	33.5	1213	1	US-08-276-151-6 Sequence 9, Appl
11	263.4	33.5	3268	4	US-09-566-921-91 Sequence 3, Appl
12	260	33.1	1696	1	US-07-887-072B-3 Sequence 3, Appl
13	260	33.1	1696	1	US-08-466-444-3 Sequence 3, Appl
14	243.4	31.0	1730	4	US-09-266-225D-7 Sequence 7, Appl
15	188.4	24.0	471	4	US-09-621-976-2335 Sequence 5, Appl
16	184.4	23.5	636	4	US-09-306-564-5 Sequence 1821, Ap
17	169.8	21.6	273	4	US-09-313-294A-1821 Sequence 527, App
18	165.6	21.1	611	3	US-09-385-982-527 Sequence 117, App
19	155.4	19.8	451	4	US-09-404-879A-117 Sequence 117, App
20	155.4	19.8	451	4	US-09-338-933-117 Sequence 117, App
21	155.4	19.8	451	4	US-09-215-681-117 Sequence 117, App
22	155.4	19.8	451	4	US-09-216-003A-117 Sequence 117, App
23	143.4	18.2	361	4	US-09-621-976-13749 Sequence 13749, A
24	138.2	17.6	300	4	US-09-313-294A-4024 Sequence 4024, Ap
25	123.4	15.7	263	4	US-09-313-294A-1865 Sequence 1865, Ap
26	123	15.6	598	4	US-09-370-838-273 Sequence 273, App
27	117.4	14.9	620	3	US-09-385-982-202 Sequence 202, App

28	113	14.4	299	4	US-09-313-294A-1299 Sequence 1299, Ap
29	89.8	11.4	281	4	US-09-313-294A-2709 Sequence 2709, Ap
30	87.6	11.1	272	4	US-09-313-294A-2434 Sequence 2434, Ap
31	79.4	10.1	284	4	US-09-313-294A-5334 Sequence 5334, Ap
32	77.8	9.9	129	4	US-09-209-676-91 Sequence 51, Appl
33	77.2	9.8	501	4	US-09-404-879A-118 Sequence 118, App
34	77.2	9.8	501	4	US-09-338-933-118 Sequence 118, App
35	77.2	9.8	501	4	US-09-215-681-118 Sequence 118, App
36	77.2	9.8	501	4	US-09-216-003A-118 Sequence 118, App
37	75.6	9.6	129	4	US-09-209-676-89 Sequence 89, Appl
38	74.6	9.5	129	4	US-09-209-676-92 Sequence 92, Appl
39	72.6	9.2	280	4	US-09-621-976-16791 Sequence 16791, A
40	71.8	9.1	382	4	US-09-621-976-16792 Sequence 16792, A
41	71.4	9.1	129	4	US-09-209-676-87 Sequence 87, Appl
42	68.4	8.7	279	4	US-09-621-976-16788 Sequence 16788, A
43	68	8.7	530	4	US-09-621-976-2933 Sequence 2933, Ap
44	67.2	8.5	129	4	US-09-209-676-88 Sequence 58, Appl
45	66.6	8.5	129	4	US-09-209-676-90 Sequence 90, Appl

ALIGNMENTS

RESULT 1
US-08-997-918-38
Sequence 38, Application US/08997918
Patent No. 6077689
GENERAL INFORMATION:
APPLICANT: Snavely, Marshall D.
TITLE OF INVENTION: ENHANCED SOLUBILITY OF RECOMBINANT PROTEINS
FILE REFERENCE: A-496
CURRENT APPLICATION NUMBER: US/08/997,918
NUMBER OF SEQ ID NOS: 59
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 38
LENGTH: 786
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Description of Artificial Sequence: Full length
US-08-997-918-38

Query Match	100.0%;	Score 786;	DB 3;	Length 786;
Best Local Similarity	100.0%;	Pred. No. 26-214;	Mismatches 0;	Indels 0;
Matches 786;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	ATGGCTCCGCGAGAGAACTGTTACATGCTAGCTGTAACAGCTGAACGT	60	
DB	1	ATGGCTCCGCGAGAGAACTGTTACATGCTAGCTGTAACAGCTGAACGT	60	
QY	61	TACGAGAAATGTTGATTCATGAGAAAGTTCCGCTGCTTTACCGTGAACCTG	120	
DB	61	TACGAGAAATGTTGATTCATGAGAAAGTTCCGCTGCTTTACCGTGAACCTG	120	
QY	121	ACCGTTGAAAGTAACTGCTGCTGCTGCTTACAAAAGCTTACCGTGTGCTGCTG	180	
DB	121	ACCGTTGAAAGTAACTGCTGCTGCTGCTTACAAAAGCTTACCGTGTGCTGCTG	180	
QY	181	GCTTCCTGCGGATTCATCTCTCCATCGAAGAGAAAGATCCCGTGTAAAGAC	240	
DB	181	GCTTCCTGCGGATTCATCTCTCCATCGAAGAGAAAGATCCCGTGTAAAGAC	240	
QY	241	CAGCTTACCGCTATCCGTGATACCGTTCCAAATGGAACGAACTGTCGATCTGC	300	
DB	241	CAGCTTACCGCTATCCGTGATACCGTTCCAAATGGAACGAACTGTCGATCTGC	300	
QY	301	GAGCGTATCTGTAAGTCTGAGCTCCCGTCTGATCCCGCTGCTCTCCGCTGAC	360	
DB	301	GAGCGTATCTGTAAGTCTGAGCTCCCGTCTGATCCCGCTGCTCTCCGCTGAC	360	
QY	361	AAAGTTTCTACTGAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT	420	

Db 361 AAAGTTTCTACTGAAATGAAGTGACTACACCGGTACCTGGCTGAGTTAAACC 420
QY 421 GGTGAGGAACGTAAGACGCTGCTGAACACACCCCTGGCTGTTACAAATCCGCTCAGGAC 480
Db 421 GGTGAGGAACGTAAGACGCTGCTGAACACACCCCTGGCTGTTACAAATCCGCTCAGGAC 480
QY 481 ATCGCTTAACGCTGAAGTGGCTCCGACCCACCGATCCGCTGGGCTGCTGAACTTC 540
Db 481 ATCGCTTAACGCTGAAGTGGCTCCGACCCACCGATCCGCTGGGCTGCTGAACTTC 540
QY 541 TCCGTTTTCTACTACGAATCTCGAATCCCGGACCCGCTGCTGCAACCTGGCTAAACAG 600
Db 541 TCCGTTTTCTACTACGAATCTCGAATCCCGGACCCGCTGCTGCAACCTGGCTAAACAG 600
QY 601 GCTTTCGAGGAGCTATCGCTCGACGTCGACACCCCTGGCTGAGATCCTACAGACTCC 660
Db 601 GCTTTCGAGGAGCTATCGCTCGACGTCGACACCCCTGGCTGAGATCCTACAGACTCC 660
QY 661 ACCCTGATCATGACGCTGCTGGTGACCAACCTGACCTGGGACCTCCGACATGCAAGAC 720
Db 661 ACCCTGATCATGACGCTGCTGGTGACCAACCTGACCTGGGACCTCCGACATGCAAGAC 720
QY 721 GACGCTGCTGAGCAATCAAGAACTGCTGCTCGAAACCGACCGAAGAACAGAGGCT 780
Db 721 GACGCTGCTGAGCAATCAAGAACTGCTGCTCGAAACCGACCGAAGAACAGAGGCT 780
QY 781 AGCTAA 786
Db 781 AGCTAA 786

RESULT 2
US-08-266-451B-1
; Sequence 1, Application US/08266451B
; Patent No. 5623054
; GENERAL INFORMATION:
; APPLICANT: Zhang et al.
; TITLE OF INVENTION: CRUCIFER APT PROTEINS AND USES
; REFERENCE/DOCKET NUMBER: 00786/219001
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM PS/2 Model 50Z or 55SX
; OPERATING SYSTEM: MS-DOS (Version 5.0)
; SOFTWARE: WordPerfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/266,451B
; FILING DATE: 23-June-1994
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Lech, Karen F.
; REGISTRATION NUMBER: 35,238
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 845
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-266-451B-1

Query Match 48.9%; Score 384; DB 1; Length 845;
Best Local Similarity 71.8%; Pred. No. 7,4e-100;
Matches 517; Conservative 0; Mismatches 200; Indels 3; Gaps 1;
QY 3 GGCTTCCGGCAGAGAAAGAACTGGTTTACATGGCTAGACTGGCTGAACAGCGCTGAACGTTA 62
Db 43 GACATTAGCAGAGACCAAGTATGTGTACATGGCAAGCTCGCCGAGCAGCGGAGGTTA 102
QY 63 CGAAGAAATGGTTGAATTCATGGAATA---AGTTTCGGCTGCTGTTGACGGTGACGAACT 119
Db 103 CGAAGAGATGGTTCAATTCATGGAACAGCTCGTTACAGCGCTACTCCAGCGGAAAGCT 162
QY 120 GACCGTTGAAGAACGTAACCTGCTGTCCTGTTTACAAAAAGTTTATCGGTCTCGTCG 179
Db 163 CACCGTTGAAGAGAGAAATCTCTCTCTGTTTACAGAACGTCATCGGATCTCTACG 222
QY 180 TGCTTCTCGGCTATCATCTCTCCATCGAAACAGAAAGAAATCCCGTGGTGACACGA 239
Db 223 CGCGGCTCGAGGATCGTGTCTTCGATTGAGCAGAGAGAGAGTAGGAAGAACACGACGA 282
QY 240 CCACGTTTACCGCTATCCGTTGAATACCGTTCCAAATTCGAAACCGAACTCTCGGTATCTG 299
Db 283 GCACGTTGCTGTTCAAGATTACAGATCTAAGTTGAGTCTGAGCTTTCTTCTGTTG 342
QY 300 CGACGCTATCTGAAACTCTGAGCTCCGCTCTGATCCCGGCTGCTGCTCCGGTGACTC 359
Db 343 CTCTGGAATCTTAAGCTCTTGAATCTGATCCATCTGATCCCATCTGCTGGAGCGAGTGATC 402
QY 360 CAAAGTTTCTACCTGAAATGAAGGTGACTACCAACCGTACCTGGCTGAGTTTAAAC 419
Db 403 TAAGTCTTTTACTTGAAGTGAAGGTGATTAATCATCGGTACATGGCTGAGTTTAAAGTC 462
QY 420 CGGTGAGGAACGTAAGACGCTGCTGAACACACCCCTGGCTGCTTACAAATCCGCTCAGGA 479
Db 463 TGGTGATGAGAGGAAATCTGCTGTAAGTATACCATGCTGCTTACAAAGCAGCTCAGGA 522
QY 480 CATCGCTAAGCTGAACTGGCTCCGACCCACCGATCCGCTGCTGGCTCTGGCTCTGAACTT 539
Db 523 TATCGCAGCTGGGATATGGCACCTACTCATCCGATAAGGCTTGGTCTGGCCCTGAAATTT 582
QY 540 CTCGGTTTTCTACTACGAAATCTGAACTCCCGGACCGCTGCTTGCAACCTGGCTAAACA 599
Db 583 CTCAGTGTCTACTATGAGATTCTCAATTTCTTACAGACAAGCTTGTAAATGCGCAACA 642
QY 600 GGCTTTGAGAGGCTATCGTGAGCTCGACACCCCTGGTGAGAAATCTTACAAAGACTC 659
Db 643 GGCTTTGAGAGGCTATAGCTGAGCTTGACACTCTGGGAGAGGAATCTTACAAAGACAG 702
QY 660 CACCTGATCATGACGCTGCTGGTGACAACTGACCTGCTGACCTCGGATCGCAGATG 719
Db 703 CACTCTCAATATGCACTTCTGAGGACAAATTTAAACCTTTGCACTCTCGATATGCGAGA 762

RESULT 3
US-08-748-725-1
; Sequence 1, Application US/08748725
; Patent No. 5859346
; GENERAL INFORMATION:
; APPLICANT: Zhang et al.
; TITLE OF INVENTION: CRUCIFER APT PROTEINS AND USES
; REFERENCE/DOCKET NUMBER: 00786/219001
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM PS/2 Model 50Z or 55SX
; OPERATING SYSTEM: MS-DOS (Version 5.0)

SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/748,725
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/266,451
FILING DATE: 23-June-1994
ATTORNEY/AGENT INFORMATION:
NAME: Leech, Karen F.
REGISTRATION NUMBER: 35,238
REFERENCE/DOCKET NUMBER: 00786/219002
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
TELEFAX: (617) 542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 845
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-748-725-1

Query Match 48.9%; Score 384; DB 2; Length 845;
Best Local Similarity 71.8%; Pred. No. 7,4e-100;
Matches 517; Conservative 0; Mismatches 200; Indels 3; Gaps 1;

QY 3 GGCTCCGGAGAGAGAACTGGTTTACATGCTAGCTGGCTGAGACAGGCTGAAGTTA 62
DB 43 GACTTTAGGAGAGACCAATGATGTGATGATGCGAGAGCTGCCAGAGGCGAGCTTA 102
QY 63 CGAAGAAATGTTGAATTCATGAGAAA--AGTTTCGCTGCTGTTGACGGTACCACT 119
DB 103 CGAAGAAATGTTGAATTCATGAGAAAAGCTGCTTACGCGCTACCTCCAGAGAGCT 162
QY 120 GACCGTTGAAGAAAGTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 179
DB 163 CACCGTTGAAGAAAGTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 222
QY 180 TGGTCTCGGAGTATCT 239
DB 223 CGCGGCTGAGAGATGCTGCTCTGATTTAGAGAGAGAGAGAGAGAGAGAGAGAG 282
QY 240 CCACGTTACCGCTATCCGCTGAATCCGTTCCAAATCGAAACCGAACTGCCGTA 299
DB 283 GACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 342
QY 300 CGAAGGATCTGTAATCTGCTGAGCTCCGCTGATCCGCTGCTGCTGCTGCTGCTG 359
DB 343 CTCTGGAATCTTAAGCTCTGATCTGATCTGATCTGATCTGATCTGATCTGATCTG 402
QY 360 CAAAGTTTCTACCTGAAAATGAAAGGTACTACACCGGTACCTGCTGATTTAAAC 419
DB 403 TAAGCTCTTTTACTGTAAGATGAAAGGTATTAATCTGCTGATACCTGATGATTTA 462
QY 420 CGGTCAAGAAAGTAAAGAGCTGCTGAACACACCGCTGCTGCTTACAAATCCGCT 479
DB 463 TGTGATGAGAGAGAAACCTGCTGTAAGATACAGCTGCTGCTTACAAAGAGAGAG 522
QY 480 CATGCTAACGCTGAACCTGCTGCAACCCGATCCGCTGCTGCTGCTGCTGCTGCT 539
DB 523 TATGCACTGCGGATATGCACTTACTCTACCTGATGAGCTGCTGCTGCTGCTGCT 582
QY 540 CTCCGTTTCTACCTGAAATCCGTAACCTCCCGGAGCCGCTGCTGCAACCTGCT 599
DB 583 CTGCTGTTCTACTATGATGATTTCTCAATTTTCAAGACAAAGCTTTGTAACATG 642
QY 600 GGGCTTTGAGAGAACTATCGCTGAGCTGCAACCTGCTGCTGCTGCTGCTGCTG 659
DB 643 GGGCTTTGAGAGAACTATCGCTGAGCTGCAACCTGCTGCTGCTGCTGCTGCTG 702
QY 660 CACCTGATATGAGCTGCTGCTGAGAGAACTGACCTGCTGCTGCTGCTGCTGCTG 719

DB 703 CACTCTATATGAGCTGCTGAGAGCAATTTAACCTTTGACCTCCGATATGAGAG 762
RESULT 4
US-09-167-206-7
Sequence 7, Application US/09167206A
Patent No. 6476193
GENERAL INFORMATION:
APPLICANT: Nandabalan, Krishnan
APPLICANT: Schulz, Vincent P.
APPLICANT: Yang, Meijia
TITLE OF INVENTION: NIK1 PROTEIN AND NIK1 PROTEIN COMPLEXES
FILE REFERENCE: 15966-521 NIK1 protein complexes
CURRENT APPLICATION NUMBER: US/09/167,206A
CURRENT FILING DATE: 1998-10-06
NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 7
LENGTH: 792
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1)..(765)
US-09-167-206-7

Query Match 43.6%; Score 343; DB 4; Length 792;
Best Local Similarity 67.8%; Pred. No. 3.5e-86;
Matches 497; Conservative 0; Mismatches 220; Indels 6; Gaps 1;

QY 14 GAGAGAACTGGTTTACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 73
DB 11 GAGAGAACTGGTTTACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 70
QY 74 TTGAATCATGAGAAAGTTTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 133
DB 71 TGAATCATGAGAAAGTTTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 124
QY 134 GTAACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 193
DB 125 GAAACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 184
QY 134 TCACTCTCATGAGAGAGAAAGTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 253
DB 185 TATATGAG 244
QY 254 TCCGTAATACCGTTCCAAATCGAAACCGAACTGCTGCTGCTGCTGCTGCTGCTG 313
DB 245 TTGCGGAATATCGGAATGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAG 304
QY 314 AACTGCTGATCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 373
DB 305 ATGTAAGTGAACAAACCTCAATTCAGAGAGTAACTGCTGCTGCTGCTGCTGCT 364
QY 374 TGAATATGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 433
DB 365 ATTAATATGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 424
QY 434 AAGAGCTGCTGAGACACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 493
DB 425 AAGAGCTGCTGAGACACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 484
QY 494 AACTGCTGCTGAGACACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 553
DB 485 AACTGCTGCTGAGACACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 544
QY 554 ACGAAATCTGAATCTCCCGGAGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 613
DB 545 ACGAAATCTGAATCTCCCGGAGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 604
QY 614 CTATGCTGAGCTGAGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 673

Oy	123	CGTTGAAGAAACGTAAACCTGCTGTCGGTGTCTTACAAAACGTTATCCGTCGTGCTGTC	182
Db	121	CTGCGAAGAGCGAAACCTGCTCTCAAGTACCTATTAAGAACGTTGGTGGGCGGCGCAGAGGCG	180
Oy	183	TTTCTGCGCATATCTTCTCCATCGAACACAAAGAAAGATTCCTGTGTAAACGACGACCA	242
Db	181	TGCTGTGAGGGTCTCTCCAGTATTTGAGAGAGAAAGCAAGAGAGGCTCTGGAGGGAGAA	240
Oy	243	CGTTACCGCATCCGTGAATACCGTTCCAAAATCCAAAACCGACTGTCCGATATCTGGCA	302
Db	241	GGGGCCCGAGTCCGTGAGTACCGGGAGAAAGGTGAGACTGAGCTCCAGGGCGTGTGCA	300
Oy	303	CGGATATCTGAAACCTGCTGAACTCCCGTGTGATCCCGGCTGTCTCCGATGATCCAA	362
Db	301	CACCGTGTGGGCTCTGTGACAGCCCTCATCAAGAGAGCCGGGGAGCGCCGAGAGCCG	360
Oy	363	AGTTTTCTACCTGAAAAATGAAAAGTGACATCCACCCGATCTGGCTGATTTAAACCGG	422
Db	361	GGCTTTCACCTGAAATGAAAGGTGATCTAATACGGTACTGGGCGAGGTGGCACC	420
Oy	423	TCGGAACGTAAAGACGCTGCTGAAACACACCCTGGCTCTTAACAAATCCGCTGAGGACAT	482
Db	421	TGACGACAGAGACCGCATATTGATCTCAAGCCGGTCAAGCTTACAGAGGCGATAGACAT	480
Oy	483	CGCTAACGCTGAACGTGGCTTCGAGCCACCCGATCCGTGTGGGTCTGAACTTTC	542
Db	481	CAGCAAGAAAGGAAATCCGCCACACAAACCCCATCCGCTGGGCTGGGCTCGAACTTTTC	540
Oy	543	CGTTTCTACTAGAAATCTGTGAATCCCCCGGAGCCGTGCTTGCAACCTGGGCTAAACAGGC	602
Db	541	CGTCTTCACTAGGAATGCGCAACAGCCCGCAGGAGGCGCATCTCTGTGGCAGAGACAC	600
Oy	603	TTTTCGACGAAGCTATGCTGAGCTGCAACCTTGGGTGAAGAAATCTTACAAAGCTCCAC	662
Db	601	TTTTCGACGAGGCGCATGCTGATCTGTGACACCTTCAGCAGAGACTCTTACAAAGCAGACAC	660
Oy	663	CGTATCATCAGACTCTGCTGAGCAACCTGACCTGTGAGACTTCGACATGCGAGAGCA	722
Db	661	CTCATATCTACAGCTCTGCTGAGACAACTGTGACATGTGAGAGGCGCACAACCGCGGGA	720
Oy	723	CGCTGCTGACGA	734
Db	721	AGAGGGAGGCGCA	732

US-08-466-444-1
 Sequence 1, Application US/08466444
 Patent No. 576676
 GENERAL INFORMATION:
 APPLICANT: Praad Ph.D., Gaddamanugu L.
 APPLICANT: Cooper M.D., Herbert L.
 TITLE OF INVENTION: EPITHELIAL CELL SPECIFIC DIFFERENTIATION
 TITLE OF INVENTION: MARKER
 NUMBER OF SEQUENCES: 5
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Knobbe, Martens, Olson & Bear
 STREET: 501 W. Broadway, Suite 1700
 CITY: San Diego
 STATE: California
 COUNTRY: USA
 ZIP: 92101
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/466,444
 FILING DATE: 06-JUN-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/887,072

```

1      FILING DATE: 20-MAY-1992
2      ATTORNEY/AGENT INFORMATION:
3      NAME: KIRKPATRICK Ph.D., Anita M.
4      REGISTRATION NUMBER: 32,617
5      REFERENCE/DOCKET NUMBER: NIH021.021A
6      TELECOMMUNICATION INFORMATION:
7      TELEPHONE: (619) 235-8550
8      TELEFAX: (619) 235-0176
9      INFORMATION FOR SEQ ID NO: 1:
10     SEQUENCE CHARACTERISTICS:
11     LENGTH: 1245 base pairs
12     TYPE: nucleic acid
13     STRANDEDNESS: single
14     TOPOLOGY: linear
15     MOLECULE TYPE: DNA (genomic)
16     HYBOTHEITICAL: NO
17     ANTI-SENSE: NO
18     15-06-466-444-1

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Query Match      35.6%; Score 279.6; DB 1; Length 1245;
Best Local Similarity 62.4%; Pred. No. 4.9e-70;
Matches 457; Conservative 0; Mismatches 269; Indels 6; Gaps 1

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Qy	3	GGGTTCCGGCAGAAAGAACTGGTTTTCATGGCTAGACTGGCTGAACAGGCTCAAGCTTA	62
Db	7	GGCCATGGAGAGGCGCACTGATCCAGAAAGCCAACTGGCAGAGAGGCGCAAGCTTA	66
Qy	63	CGAAGAAATGGTTGAATTCATGAAAAAAGTTCCGCTGCTGTTAGCGGTACGAACTGAC	122
Db	67	TGAGGCATGGCAGGCTTCATGAAAGG-----CGCCGTGAGAAAGGCGCAGGAGCTCTC	120
Qy	123	CGTTAAGAACGTAACTGCTGCTCCGTTGCTTAATAAAGGTTATGGGTGCTGCTGCTC	182
Db	121	CTGCGAAGGCGAAACCTGCTCTCAGTGCCTATTAAGACGTGGTGGCGCGCAGAGGCG	180
Qy	183	TTCTGGCCTATCATCTCTCCATCGAACAGAAAGAAATCCCGTGGTAAACGACACCA	242
Db	181	TGCTGGAGGGGTGCTGTCCAGTATTGAGCAGAAAGCAAGAGAGGGCTCGAGGAGAA	240
Qy	243	CGTTACCGCTATCCGTAATACCGTTCCAAATCGAAACCGAACTGTCCGTAATCTTGCA	302
Db	241	GGGGCCCGAGGGCTGTAGTACCGGAGAAAGTGGAACTGAACTCAGGGCGTGTGCCA	300
Qy	303	CGGTATCCGAAACGTCTGSACTCCGCTGATCCGGCTGTGCTTCGCGTACTCCAA	362
Db	301	CACCTGTCTGGGCTCTGTGACAGCTTCATTAAGAGGCCGGGGAACCGAGAGCCG	360
Qy	363	AGTTTCTACCTGAAATGAAAGGTGACTACACCGGTACTGTGAGTTTAAAAACGG	422
Db	361	GGTCTTCACCTGAAAGATGAAGGGTGACTACTACCGCTACTGTGGCGAGGTGCCACCG	420
Qy	423	TCAAGAAAGTAAAGACGTGCTGTAACACCCCTGGCTGTTACAAATCCGCTCAGACAT	482
Db	421	TGACGCAAGAAAGCGCATCATTTGACTGAGCCGGTACGCTTACAGAGGCCATGACAT	480
Qy	483	CGCTAACGCTGAACGTGGTCCGACCCACCGGATCCGTCGGTGGTCTGTGACTTCTC	542
Db	481	CAGCAAGAAAGAGATGCGGCCCAACCAACCCATTCGCTGGCTGGCCCTGAACCTTTC	540
Qy	543	CGTTTCTACTACGAATTCCTGAACCTCCCGGACCGTGTGCAACCTGGCTAAGACGC	602
Db	541	CGTCTTCCACTGAGATGCGCAACAGCCCGAGAGGACATCTCTGTGGCCAAAGCAC	600
Qy	603	TTTTCAGCAAGGTATCGGTGAGCTCGACACCCCTGGGGTAAGATCCTTCAAGAGCTCCAC	662
Db	601	TTTTCAGCGAGGCATAGGCTGATGTCACACCCCTCAGGAGGACTCTTACAAAGACGAC	660
Qy	663	CGTGAATCATGCACTGCTGCTGTAACAACCTGACCTGTGACCTCCGACATGACAGACA	722
Db	661	CGTCATCATGCACTGCTGCGAGCAACCTGACACTGTGACGGCGGACAAACGCCGGGGA	720
Qy	723	CGCTGCTACGA 734	

Db	721	AGAGGGGCGCA	732
RESULT 8			
US-07-876-284-1			
; Sequence 1, Application US/07876284			
; Patent No. 5279957			
; GENERAL INFORMATION:			
; APPLICANT: Gross, Richard W.			
; TITLE OF INVENTION: No. 5279957el Human Phospholipase A2 Polypeptide			
; TITLE OF INVENTION: And Methods Of Use			
; NUMBER OF SEQUENCES: 7			
; CORRESPONDENCE ADDRESS:			
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5279957ris			
; STREET: 1 Liberty Place, 46th Floor			
; CITY: Philadelphia			
; STATE: PA			
; COUNTRY: USA			
; ZIP: 19103			
; COMPUTER READABLE FORM:			
; MEDIUM TYPE: Floppy disk			
; OPERATING SYSTEM: IBM PC compatible			
; SOFTWARE: Patent In Release #1.0, Version #1.25			
; CURRENT APPLICATION DATA:			
; APPLICATION NUMBER: US/07/876,284			
; FILING DATE: 19920430			
; CLASSIFICATION: 435			
; ATTORNEY/AGENT INFORMATION:			
; NAME: Hohenschutz, Liza D.			
; REGISTRATION NUMBER: 33,712			
; REFERENCE/DOCKET NUMBER: SPNX-0109			
; TELECOMMUNICATION INFORMATION:			
; TELEPHONE: (215) 588-3100			
; TELEFAX: (215) 568-3439			
; INFORMATION FOR SEQ ID NO: 1:			
; SEQUENCE CHARACTERISTICS:			
; LENGTH: 853 base pairs			
; TYPE: NUCLEIC ACID			
; STRANDEDNESS: single			
; TOPOLOGY: linear			
; MOLECULE TYPE: cdna to mRNA			
; FEATURE:			
; NAME/KEY: CDS			
; LOCATION: 85..822			
; US-07-876-284-1			
Query Match 34.3%; Score 259.8; DB 1; Length 853;			
Best Local Similarity 62.6%; Pred. No. 2.6e-67;			
Matches 459; Conservative 0; Mismatches 262; Indels 12; Gaps 2;			
QY	13	AGAGAAGAACTGGTTTACATGGCTAGACTGGTGTAACAGGCTGAACGTTCAGCAAGAATG	72
Db	91	AAAATGAGCTGGTTCAGNAGGCCAAATGSCCNGAGGCTGACCATATGATGCATG	150
QY	73	GTTGAATTCAATGAAAAAATTTCCCGCTGCTGTTGACGGTGACGAACCTGACGGTTGAAGAA	132
Db	151	GCAGCGCTGCATGAAG-----TCTGTAAC TGACGAAGGAGCTGAATTATCCAATGAGGAG	204
QY	133	CCTAACCTGCTCCGTTGCTTACAAAACCTTATCGTGCTCGTGGCTTCTCGCGT	192
Db	205	AGAAATCTTCTCTGATTTGCTTTATAAAAATGTTGAGGAGCCCGTAGTCATCTTGGAGG	264
QY	193	ATCATCTCTCCATCGAACAGAAAGAAATCCCGTGTTAAACGACGACCAGCTTTACCGCT	252
Db	265	GTCGTCTCAAGTATTGAACAAAAGACGGAAGTGCTGTGAGAAAAACAGCAGATGCC---	320
QY	253	ATCCCGTGAATACGGTTCBAAATCAAACCGCACTGTCCGCTATCTCGGACGGTATCTCG	312
Db	321	--TCGAGAATACAGAGAGAAAAATTGAGACGGAGCTTAAGAGATATCTCAATGATGTACTG	378
QY	313	AAATGCTGCACTCCCGTCTGATCCCGCTGCTGCTTCCCGTGACTCCAAAGTTTTCTAC	372

379 TCTCTTTGGAAAAATTTCTTGATCCCCAATGCTTTCACAAGACGAGACAAAGTCTTCTAT 438

373 CTGAAATGAAAGGTGACTACCCACCGGTACCTGGCTGAGTTTAAACCGGTGAGGAACGT 432

439 TTGAAATGAAAGGAGATTACTACCGTTACTTGGCTGAGGTGCCCCTGSGTGATGACAG 498

433 AAAGACGCTGCTGAACACACCCCTGGCTGCTTCAAAATCCGCTCAGGACATCGCTAACGCT 492

499 AAAGGATTTGCGATCATGTCAGTACACAAAGACATCCAGAGAGCTTTTGAATCAGCAAAAAG 558

493 GAATCGGCTCGACCCACCGATCCGCTCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 552

559 GAATGCAACCAACACATCTTATCAGACTGGGCTGGCCCTTAACTTCTCTGCTGCTGCTGCT 618

553 TAGAAATCTGAACTCCCGGACCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 612

619 TATGAGATTTGAACTCCCGAGAGAAAGCGCTGCTCTCTGCAAAAGACAGAGCTTTTGATGAA 678

613 GCTATCGCTGAGCTCGACACCCCTGGGTGAAGATCCTTACAAAGACTCCACCTGATCATG 672

679 GCCATTGCTGAACTTGATACATTAAAGTGAAGAGTCATACAAAGACAGCAGCGCTAATAATG 738

673 CAGCTGCTGCTGACCAACCTGACCCCTGCTGACCTCGGACCTCCGACATGAGGACGACGCTGCTGAC 732

739 CAATTACTGAGAGACAACTTGACATTTGTCGACATTCGATCCGATCCGATCCGATCCGATCCGAT 798

733 GAATCAAGAAG 745

799 GCAGGAGAAGGAG 811

RESULT 9

US-08-276-151-8

; Sequence 8, Application US/08276151

; Patent No. 5597719

; GENERAL INFORMATION:

; APPLICANT: Freed, Ellen

; APPLICANT: Ruggieri, Rosamaria

; TITLE OF INVENTION: Interaction of raf-1 and 14-3-3 Proteins

; NUMBER OF SEQUENCES: 9

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Cooley Godward et al.

; STREET: Five Palo Alto Square

; CITY: Palo Alto

; STATE: CA

; COUNTRY: USA

; ZIP: 94036

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/276,151

; FILING DATE: 14-JUL-1994

; CLASSIFICATION: 530

; ATTORNEY/AGENT INFORMATION:

; NAME: Torchia, Ph.D., Timothy E

; REGISTRATION NUMBER: 36,700

; REFERENCE/DOCKET NUMBER: ONYX-005/00US

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 843-5481

; TELEFAX: (415) 857-0663

; INFORMATION FOR SEQ ID NO: 8:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 2834 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cdna to mRNA

; HYPOTHETICAL: NO

; ORIGINAL SOURCE:

; ORGANISM: Homo sapiens

FEATURE:
NAME/KEY: CDS
LOCATION: 85..822
US-08-276-151-8

Query Match 34.3%; Score 269.8; DB 1; Length 2834;
Best Local Similarity 62.6%; Pred. No. 4.4e-67;
Matches 459; Conservative 0; Mismatches 262; Indels 12; Gaps 2;

QY 13 AGGAAAGAACTGTTACATGCTAGACCTGGCTGAACAGGCTGAACGTTACGAAGAATG 72
DB 91 AAAAAAGAGTGTTCAGAAAGCCAAACCTGCCAGACAGCTGAGGATATGATGACATG 150
QY 73 GTGAATTCATGAGAAAAGTTCCGCTGCTGTGACGCTGACGAACCTGACCGTTGAGAA 132
DB 151 GCAGCCTGATGAAAG-----TCTGTACTGAGCAAGAGAGCTGAATTATCCATGAGAG 204
QY 133 CGTAACCTGCTGCTGCTGCTTCAAAAACGTTATGAGTCTGCTGCTGCTGCTGCTG 192
DB 205 AGGAATCTCTCTCAGTGTCTTAAATAATGTGTAGAGCCCGTGGTCACTTTGAGAG 264
QY 193 ATCATCTCCCTCCATCCAGACAGAAAGAAATCCCGTGTATACGACGACCACTTACCGCT 252
DB 265 GTCTCTCAAGTTTAAACAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 320
QY 253 ATCCGTGAATACCGTTCCAAATCGAAACGAACTGTCCGTTATCTGCAACGCTATCTG 312
DB 321 --TCGAGAAATACAGAGAGAAATTTGAGACGAGACTAAGATATCTGCAATGATGACTG 378
QY 313 AAACGTGTGACCTCCGCTGTGATCCCGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 372
DB 379 TCTCTTTTGAAGAAATTTCTGATCCCATGCTTCAAGACAGAGAGAGAGAGAGAG 438
QY 373 CTGAAATGAAAGAGTGAATCAACCGGTACCTGCTGATTTTAAACCGGTCAAGAGCT 432
DB 439 TTGAAATGAAAGAGATTAACCGTTACTGCTGAGAGTTCCCGTGTATGACAG 498
QY 433 AAAGAGCTGTGACACACCCCTGGCTGCTTAAATCCGCTCAAGACATGCTAAGGCT 492
DB 499 AAAGGATGTGTCACTGATCAACCAACAGTACCAAGAACTTTTAAATTCAGCAAAAAG 558
QY 493 GAATGCTGCTGACCCACCGATCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 552
DB 559 GAATGCAACCAACACATCTTATCAAGCTGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 618
QY 553 TACGAAATCTGTAATCCCGCGAACCGTGTGCAACCTGCTTAAACAGGCTTTGACGAA 612
DB 619 TATGAGATTTGAAATCCCGAGAGAAAGCTGCTCTCTTCAAAAGACAGCTTTGATGAA 678
QY 613 GCTATGCTGAGCTGCAACCCCTGGTGAAGATTCCTCAAAAGACCTCCACCCGATCATG 672
DB 679 GCCTTCTGTAATCTTGAATTAATTAAGTGAAGAGTCAAAAGACAGAGCTTAATAAG 738
QY 673 CAGTGTGCTGCTGCAACCTGACCTGTGACCTCCGACATGACAGAGAGAGAGAGAG 732
DB 739 CAATTACTGAGAGCACTTGAATTTGACATCGGATACCAAGAGAGAGAGAGAGAG 798
QY 733 GAATCAAGAG 745
DB 799 GCAGAGAGAGAG 811

RESULT 10

US-08-276-151-6

Sequence 6, Application US/08276151

Patent No. 5597719

GENERAL INFORMATION:

APPLICANT: Freed, Ellen

APPLICANT: Ruggieri, Rosamaria

TITLE OF INVENTION: Interaction of raf-1 and 14-3-3 Proteins

NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESS:

ADDRESSEE: Cooley Godward et al.

STREET: Five Palo Alto Square
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94036

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/276,151
FILING DATE: 14-JUL-1994
CLASSIFICATION: 530

ATTORNEY/AGENT INFORMATION:
NAME: Torchia, Ph.D., Timothy E
REGISTRATION NUMBER: 36,700

REFERENCE/DOCKET NUMBER: ONYX-005/0005
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 843-5481
TELEFAX: (415) 857-0663

INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1213 base pairs
TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA to mRNA
HYPOTHETICAL: NO

ORIGINAL SOURCE:
ORGANISM: Homo sapiens
FEATURE:

NAME/KEY: CDS
LOCATION: 373..1113
US-08-276-151-6

Query Match 33.5%; Score 263.4; DB 1; Length 1213;
Best Local Similarity 62.1%; Pred. No. 2e-65;
Matches 455; Conservative 0; Mismatches 266; Indels 12; Gaps 2;

QY 1 ATGGCTTCGGCAGAGAGAACTGTTTACATGCTAGCTGCTGCTGCTGCTGCTGCTG 60
DB 373 ATGCAATGAGATTAAGAGAGCTGTTACAGAAACCAAACTGCTGAGAGCTGAGAGC 432
QY 61 TACGAAAGATGCTTGAATTAATGAAAGATTTCCGCTGCTGTTGACGAGAGAACTG 120
DB 423 TATGATGATATGCTGCGACCATGAAAGCACTACAGAAC-----AGGGGCAATGAATC 486
QY 121 ACCGTTGAAAGAGTAACTGCTGCTGCTGCTGCTTACAAAAGTTATCCGCTGCTGCTG 180
DB 487 TCCAGAGAGAGAGAAATCTGCTCTCTGTTGCCAAGAGATGTGTAGAGGCGCGCGC 546
QY 181 GCTTCTGCTGATATCTCTCCATGCAACAGAAAGAGATCCGTTGTAACGAGAC 240
DB 547 TCTTCTGCTGCTGATCTCCAGATGAGCAGAAACAGAGAGAAATGAGAGAGAGAG 606
QY 241 CACGTTACCGGTATCCGTAATCCGTTCCAAATTCGAAACCGAAGTCCGATATCTGC 300
DB 607 CAGATG-----GCAAGAGTACCGTGAAGAGAGAGAGAGAGAGAGAGAGAGAG 660
QY 301 GACGATATCTGAAACTGCTGAGCTCCGCTGATCCCGGCTGCTGCTGCTGCTGCTGCTG 360
DB 661 AATGATGTTCTGAGCTGTGGAAGAAATATCTTATCCCAATGCTACACAGAAAGT 720
QY 361 AAAGTTTCTACCGTGAAGATTAAGTGAATCAACACCGGTACCTGCTGCTGCTGCTGCTG 420
DB 721 AAGGTGTTCTTGAATTAAGAGAGATTAATTTAGTATCTTTCTGAGAGTGCATCT 780
QY 421 GGTCAAGAGAGTGAAGAGCTGCTGTAACACACCTGCTGCTTCAAAATCCGCTCAGAGAC 480
DB 781 GGAGAGCAACAAACAGACAGCTGTGCAATCCAGAGAGCTTACAGAGAGAGATTTGAA 840
QY 481 ATGCTTAACGCTGAACCTGCTCCAGACCAACCGGATCCGCTGCTGCTGCTGCTGCTGCTG 540

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Db 841 ATTAGTAAGAAAGAAATGAGCCTCACACCCCAATTCGCTTGGTGGCACTAAATTC 900
Qy 541 TCCGTTTCTACTACGAAATCCTGAACTCCCGGACCGTGTGCAACCTGGCTAAACAG 600
Db 901 TCAGTCTTTTACTATGAGATCTTAAACTCTCTGAAAGGCGCTGTAGCTGCAAAAACG 960
Qy 601 GCTTTCGAGAACTATCGCTGAGCTCGACACCGCTGGGTGAAGATCTTACAAAGACTCC 660
Db 961 GCATTTGATGAAGCAATTCGTAATTTGGATACGCTGAATGAAGAGTCTTTATAAGACAGC 1020
Qy 661 ACCCTGATCATGAGCTGTGGCTGACAACTGACCCCTGTGGACCTCCGACATGCGAGAC 720
Db 1021 ACTCTGATCATGAGTACTTAGGACATCTCACTCTGTGACATCGGAACACGAGG 1080
Qy 721 GAGCTGTCTGACG 733
Db 1081 GACGAAGGAGAGC 1093

RESULT 11
US-09-566-921-91
; Sequence 91, Application US/09566921
; Patent No. 6682888
; GENERAL INFORMATION:
; APPLICANT: Loring, Jeanne F.
; APPLICANT: Tingley, Debora W.
; APPLICANT: Edwards, Carla M.
; TITLE OF INVENTION: GENES EXPRESSED IN ALZHEIMER'S DISEASE
; FILE REFERENCE: PA-0024 US
; CURRENT APPLICATION NUMBER: US/09/566,921
; CURRENT FILING DATE: 2000-05-05
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: PERL Program
; SEQ ID NO 91
; LENGTH: 3268
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6682888 412068.12
; NAME/KEY: unsure
; LOCATION: 62, 115-180
; OTHER INFORMATION: a, t, c, g, or other
US-09-566-921-91

Query Match 33.5%; Score 263.4; DB 4; Length 3268;
Best Local Similarity 62.1%; Pred. No. 3.1e-65;
Matches 455; Conservative 0; Mismatches 266; Indels 12; Gaps 2;

Qy 1 ATGGCTTCGGCAGAGAGAACTGGTTTACATGGCTAGACTGGCTGAACAGGCTGAAGT 60
Db 386 ATGACAATCGATAAAGTAGTGCTGTACAGAAAGCCAACTCGCTGACGAGCTGAGCGC 445
Qy 61 TAGAAGAAATGGTTGAATTCATGAAAGTTTCGGCTGCTGTGGAGGTCGACGAATG 120
Db 446 TAGATGATATGGCTGACCAATGAGGCAATCAGAAC-----AGGGGATGAATC 499
Qy 121 ACGTTTGAAGACGTAACCTGTGTCGCTTGTACAAAAAGTTATCGGCTGCTGCTG 180
Db 500 TCAACGAAGACAGAAATCTGCTCTCTGTGCTACAAAGATGTGGTAGGCGCCCGCGC 559
Qy 181 GCTTCTCGGCTATCATCTCTCCATCGAACAGAAAGAGATCCGTTGTAACGACG 240
Db 560 TCTTCTCGGCTGTATCTCCAGCATTTGAGCAGAAACAGAGAGAAATGAGAGAGAGC 619
Qy 241 CAGGTTACCGCTATCGTGAATACGGTTCCAAATCGAAACCGAACTGTCGGTATCTGC 300
Db 620 CAGATGG-----GCAAGAGTAGCTGTGAGAGATAGAGGCGAGAACTGCAAGATCTGC 673
Qy 301 GACGGTATCCTGAAGACTGTGACTCCCGTCTGATCCCGGCTGCTGCTCCGGTGAATCC 360
Db 674 AATGATGTTCTGGAGCTGTGAGACAAATATCTTATTCCTCAATGCTTACACAAACGAAAGT 733
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Qy 361 AAAGTTTTCTACCTGAAATGAAAGGTGACTACCAACGGTACCTGGCTGAGTTTAAAC 420
Db 734 AAGGTGTTCTACTTGAATGAAAGGAGATTAATTTAGGTATCTTTCTGAAGTGGCATCT 793
Qy 421 GGTGAGAAAGTAAAGCGCTGTAACACACACCTGGCTGCTTACAAATCCGCTCAGGAC 480
Db 794 GAGACAAACAAACCACTGTGTGAACTCCAGAGGCTTACCAGGAAGCAATTTGAA 853
Qy 481 ATCGTAAACCTGAACTGGCTCCGACCCACCCGATCCGCTCTGGGTCTGGCTCTGAAC 540
Db 854 ATTAGTAAGAAAGAAATGACGCTTACACACCAATTCGCTCTGTGGCTGACATAATTC 913
Qy 541 TCGTTTTCTACTACGAAATCCTGAACTCCCGGACCGGCTGCAACCTGGCTGAACAG 600
Db 914 TCAGTCTTTTACTATGAGATTTAAACTCTCTGAAAGGCGCTGTAGCTGGCAAAAACG 973
Qy 601 GCTTTCGACGAAGCTATCGCTGAGCTCGACACACCTGGTGAAGAACTCTACAAAGACTCC 660
Db 974 GCATTTGATGAAGCAATTCGTAATTTGGATACGCTGAATGAAGAGTCTTTATAAGACAGC 1033
Qy 661 ACCCTGATCATGAGCTGTGGCTGACCACTGACCTGTGGAGCTCCGACATGCGAGGAC 720
Db 1034 ACTCTGATCATGAGTACTTAGGACAAATCTCACTCTGTGACATCGGAAACCCAGGGA 1093
Qy 721 GAGCTGTCTGACG 733
Db 1094 GACGAAGGAGAGC 1106

RESULT 12
US-07-887-072B-3
; Sequence 3, Application US/07887072B
; Patent No. 5424191
; GENERAL INFORMATION:
; APPLICANT: Prasad Ph.D., Gaddamanugu L.
; APPLICANT: Cooper M.D., Herbert L.
; TITLE OF INVENTION: EPITHELIAL CELL SPECIFIC DIFFERENTIATION
; TITLE OF INVENTION: MARKER
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe, Martens, Olson & Bear
; STREET: 501 W. Broadway, Suite 1700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/887,072B
; FILING DATE: 20-MAY-1992
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Kirkpatrick Ph.D., Anita M.
; REGISTRATION NUMBER: 32,617
; REFERENCE/DOCKET NUMBER: NIH021.021A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1696 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEetical: NO
; ANTI-SENSE: NO
US-07-887-072B-3
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Query Match 33.1%; Score 260; DB 1; Length 1696;
 Best Local Similarity 61.7%; Pred. No. 2.2e-64;
 Matches 470; Conservative 0; Mismatches 280; Indels 12; Gaps 3;

QY 10 GGCAGAGAAAGCTGTTTACATGCTAGACTGCTGTAACAGGCTTAAGCTTACGAGAA 69
 Db 172 GACCGCAGACGCTGCTGACGCGGCGGCTGCGCAGAGAGCGGCTACGACGAC 231
 QY 70 ATGCTTGAATTCATGAAAAAGTTTCCGCTGCTGTTGACCGGTACCACTGACCGTTGAA 129
 Db 232 ATGGCCCTCCGCAATGAA-----GGCGGTGATGAGCTCAATAGCTCTCTCCACGAA 285
 QY 130 GAACGTAACTGCTGCTGCTGCTGCTTACAAAAGCTTACGCTGCTGCTGCTGCTGCTG 189
 Db 286 GACCGAAACCTCTCTCTGCGGCTGCTACAGAACGTGCTGCTGCTGCTGCTGCTGCTG 345
 QY 190 CATTATCTCTCTCATCGAAGAGAAAGAAATCCCGGTGTAACGACGACGCTTACC 249
 Db 346 AGGCTCATCAGCAGATCGACGAGAGAACATGCTGATGGAGATGAGAGAGAGCTGAG 405
 QY 250 GCTATCCGTGAATCCGCTTCCAAATCGAAACCGAACTGTCCGTAATCGACGCTATC 309
 Db 406 AAGGTGAAGGCTTACCGGAGAGAGATGAGAGAGAGCTGAGACGCTGTGCAACGACGTG 465
 QY 310 CTGAAATGCTGATCTCCGCTGATC---CCGCTGCTGCTTCCGCT--GACTCCAAA 363
 Db 466 CTGCGCTGCTGACAAATGTTCTCATAGAACTGCAATGACTTCCAGTACGAGAGCAAG 525
 QY 364 GTTTTCTACCTGAAAATGAAAGGTGACTACACCGGTAAGCTGCTGCTGCTTAAACCGGT 423
 Db 526 GTCTTCTACTGAAGATGAAAGGCGACTACTACGCTACTGCGCAGAGCTGCTTCCG 585
 QY 424 CAGGAAGTAAAGCTGCTGCTGTAACACACCTGCTGCTTAAATCCGCTACGAGACATC 483
 Db 586 GAGAGAAAGAAAGTGTGTGTGAGAGGCTCTCAGAGGCGGCTTCAAGAGAGCTTCCGAT 645
 QY 484 GCTAACGCTGAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 543
 Db 646 AGCAAGAGACATGACAGCCCAACACCCATCCGCTGCGCTGCTGCTGCTGCTGCTGCT 705
 QY 544 GTTTTCTACTAGAAATCTGAACTCCCGGACCGTGTGCTGCAACCTGCTGTAACAGGCT 603
 Db 706 GTCTTCTACTAGAGATCCAGAAATGCGCTGACAGAGGCTGCTCTCTAGCAAAACAGCC 765
 QY 604 TTGACGACAACTATCCGCTGAGCTGACACCCCTGGGTGAAAGATCTCTAAGAGCTCCAC 663
 Db 766 TTGACGACAACTATCCGCTGAGCTGAGACACTAAAGAGATCTCTAAGAGCTCCACG 825
 QY 664 CTGATCATGAGCTGCTGCTGCTGCAACCTGACCTGCTGCTGCTGCTGCTGCTGCTGCTG 723
 Db 826 CTGATCATGAGCTGCTGCTGCTGCAACCTGACCTGCTGCTGCTGCTGCTGCTGCTGCTG 885
 QY 724 GCTGCTACCAATCAAGAAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 765
 Db 886 GAAAGCCGAGAGAGCACTGAGCGCTTGGCCGCGCCGCC 927

RESULT 13
 US-08-466-444-3

; Sequence 3, Application US/0846644
 ; Patent No. 576676
 ; GENERAL INFORMATION:
 ; APPLICANT: Piraad Ph.D., Gaddamanu L.
 ; APPLICANT: Cooper M.D., Herbert L.
 ; TITLE OF INVENTION: EPITHELIAL CELL SPECIFIC DIFFERENTIATION
 ; TITLE OF INVENTION: MARKER
 ; NUMBER OF SEQUENCES: 5
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Knobe, Martens, Olson & Bear
 ; STREET: 501 W. Broadway, Suite 1700
 ; CITY: San Diego
 ; STATE: California

; COUNTRY: USA
 ; ZIP: 92101
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; OPERATING SYSTEM: IBM PC compatible
 ; SOFTWARE: Patent Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/466,444
 ; FILING DATE: 06-JUN-1995
 ; CLASSIFICATION: 435
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/887,072
 ; FILING DATE: 20-MAY-1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Kirkpatrick Ph.D., Anita M.
 ; REGISTRATION NUMBER: 32,617
 ; REFERENCE/DOCKET NUMBER: NIH021,021A
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (619) 235-8550
 ; TELEFAX: (619) 235-0176
 ; INFORMATION FOR SEQ ID NO: 3:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1696 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA
 ; HYPOTHEICAL: NO
 ; ANTI-SENSE: NO
 ; US-08-466-444-3

Query Match 33.1%; Score 260; DB 1; Length 1696;
 Best Local Similarity 61.7%; Pred. No. 2.2e-64;
 Matches 470; Conservative 0; Mismatches 280; Indels 12; Gaps 3;

QY 10 GGCAGAGAAAGCTGTTTACATGCTAGACTGCTGTAACAGGCTTAAGCTTACGAGAA 69
 Db 172 GACCGCAGACGCTGCTGACGCGGCGGCTGCGCAGAGAGCGGCTACGACGAC 231
 QY 70 ATGCTTGAATTCATGAAAAAGTTTCCGCTGCTGTTGACCGGTACCACTGACCGTTGAA 129
 Db 232 ATGGCCCTCCGCAATGAA-----GGCGGTGATGAGCTCAATAGCTCTCTCCACGAA 285
 QY 130 GAACGTAACTGCTGCTGCTGCTGCTTACAAAAGCTTACGCTGCTGCTGCTGCTGCTGCTG 189
 Db 286 GACCGAAACCTCTCTCTGCGGCTGCTACAGAACGTGCTGCTGCTGCTGCTGCTGCTGCTG 345
 QY 190 CATTATCTCTCATCGAAGAGAAAGAAATCCCGGTGTAACGACGACGCTTACC 249
 Db 346 AGGCTCATCAGCAGATCGACGAGAGAACATGCTGATGGAGATGAGAGAGAGCTGAG 405
 QY 250 GCTATCCGTGAATCCGCTTCCAAATCGAAACCGAACTGTCCGTAATCTGGAAGGATC 309
 Db 406 AAGGTGAAGGCTTACCGGAGAGAGATGAGAGAGAGCTGAGACGCTGTGCAACGAGCTG 465
 QY 310 CTGAAATGCTGATCTCCGCTGATC---CCGCTGCTGCTTCCGCT--GACTCCAAA 363
 Db 466 CTGCGCTGCTGACAAATGTTCTCATAGAACTGCAATGACTTCCAGTACGAGAGCAAG 525
 QY 364 GTTTTCTACTGAAAATGAAAGGTGACTACACCGGTAACCTGCTGATGTTAAACCGGT 423
 Db 526 GTCTTCTACTGAAAGATGAAAGGCGACTACTACCGCTTACCTGCTGCTGCTGCTGCTGCTG 585
 QY 424 CAGGAAGTAAAGCGCTGCTGTAACACACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 483
 Db 586 GAGAGAAAGAAAGTGTGTGTGAGAGGCTCAGAGGCGGCTTACAGAGAAAGCTTGAAGATT 645
 QY 484 GCTAACGCTGAATGCTGCTGCTGCAACCCGATCCGCTGCTGCTGCTGCTGCTGCTGCTGCTG 543
 Db 646 AGCAAGAGACATGACAGCCCAACACCCATCCGCTGCGCTGCGCTGCTGCTGCTGCTGCTG 705
 QY 544 GTTTTCTACTAGAAATCTGAACTCCCGGAGACCGTGTGCTGCTGCTGCTGCTGCTGCTGCT 603

Mon Jun 7 09:14:19 2004

us-09-507-166-38.rn1

Page 11

Db 298 TTATCATGCGAGTGTGTTACGTGATATCTGACACTATGACTTCAGACATGCGGGTGACG 357
Qy 725 CTGCTGACGAAATCAAGAGC 746
Db 358 CTGAAGACGAGATTAAGAGC 379

Search completed: June 7, 2004, 00:43:04
Job time : 95 secs